COMPAQ MV-920

MODEL

SERVICE MANUAL

2 Product Specifications

2-1 Specifications

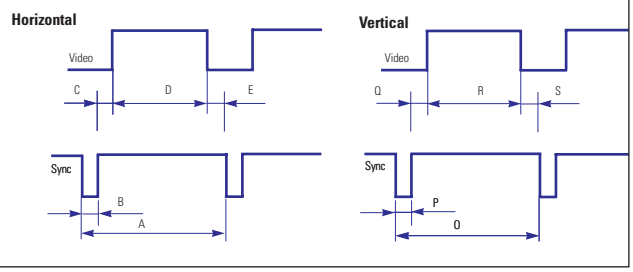
Item	Description
Picture Tube:	17-Inch (43 cm): 16-inch (40.6 cm) viewable, 19-Inch (48.2 cm): 18-inch (45.8 cm) viewable, 21-Inch (53 cm): 20-inch (50.8 cm) viewable, 17"/19": 0.26 mm Dot pitch, 21": 0.25 mm Dot pitch, Full-square flat-face tube, 90˚ Deflection, 100˚ Deflection (PG19S*, PG19R*), Anti-Reflection coating with Anti-electrastatic, Medium short persistence phosphor
Scanning Frequency (Automatic)	Horizontal : PG17H*/PG19R*/PG19LS/PG21LS: 30 kHz to 96 kHz (Automatic), PG19HS/PG19S*: 30 kHz to 110 kHz (Automatic), PG21MS: 30 kHz to 115 kHz Vertical : 50 Hz to 160 Hz (Automatic)
Display Colors	Unlimited colors
Maximum Resolution	Horizontal : 17"/19"/PG21LS: 1600 Dots, PG21MS: 1800 Dots Vertical : 17"/19"/PG21LS: 1200 Lines, PG21MS: 1440 Dots
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω, internally terminated
Input Sync Signal	Separate Sync : TTL level positive/negative Composite Sync : TTL level positive/negative Sync-on-Green : Composite sync 0.3 Vp-p negative (Video on Vp-p positive)
Maximum Pixel Clock rate	17"/PG19LS/PG19R*/PG21LS : 205 MHz, PG19S*/PG19HS : 240 MHz, PG21MS : 280 MHz
Active Display	17" ; Horizontal : 306 mm ± 3 mm (12.05" ± 0.12") Vertical : 230 mm ± 3 mm (9.06" ± 0.12") 19" ; Horizontal : 352 mm ± 3 mm (13.86" ± 0.12") ; 330 mm ± 3 mm (12.99" ± 0.12") Vertical : 264 mm ± 3 mm (10.39" ± 0.12") 21" ; Horizontal : 393 mm ± 3 mm (15.47" ± 0.12") Vertical : 294.5 mm ± 3 mm (11.60" ± 0.12")
Input Voltage	AC 90 to 264 Volts, 60/ 50 Hz ± 3 Hz
Power Consumption (max)	17": 120 Watt , 19": 130 Watt, 21": 140 Watt
Dimensions (W x D x H)	Unit ; 17" : 16.3 x 16.9 x 17.2 Inches (415.0 x 430.3 x 438 mm) 19" : 18.4 x 19.6 x 19.0 Inches (468.0 x 499.0 x 483.2 mm) 21" : 19.8 x 19.4 x 20.0 Inches (504.0 x 492.0 x 508.0 mm) Carton ; 17" : 21.1 x 22.3 x 21.9 Inches (535 x 566 x 555 mm) 19" : 22.6 x 23.2 x 22.8 Inches (573.0 x 590.0 x 580.0 mm) 21" : 25.0 x 24.6 x 25.3 Inches (634.0 x 625.0 x 642.0 mm)
Weight (Net/Gross) (Net/Gross)	17" : 39.0 lbs (17.7 kg) / 45.6 lbs (20.7 kg) 19" : 49.6 lbs (22.5 kg) / 58.8 lbs (26.7 kg) 21" : 57.6 lbs (26.1 kg) / 67.3 lbs (30.5 kg)
Environmental Considerations	Operating Temperature : 32°F to 104°F (0°C to 40°C) Humidity : 10 % to 80 % Storage Temperature : -4°F to 113°F (-20°C to 45°C) Humidity : 5 % to 95 %

- PG17**/PG19**/PG21** complies with TCO 99 recommendations for reduced electromagnetic fields.
- Designs and specifications are subject to change without prior notice.

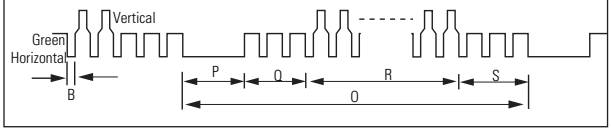
Table 2-1. Timing Chart

Mode / Timing	IBM		VESA							MAC.
	VGA2/70Hz 720 x 400	VGA3/60Hz 640 x 480	640/85 Hz 640 x 480	800/85 Hz 800 x 600	1024/85 Hz 1024 x 768	1280/75 Hz 1280 x 1024	1280/85 Hz 1280 x 1024	1600/75 Hz 1600 x 1200	1600/85 Hz 1600 x 1200	1152/75 Hz 1152 x 870
fH (kHz)	31.469	31.469	43.269	53.674	68.677	79.976	91.146	93.750	106.250	68.681
A µsec	31.778	31.778	23.111	18.631	14.561	12.504	10.971	10.667	9.412	14.560
B µsec	3.813	3.813	1.556	1.138	1.016	1.067	1.016	0.948	0.837	1.280
C µsec	1.907	1.907	3.810	2.702	2.201	1.837	1.422	1.501	1.325	1.440
D µsec	25.422	25.422	5.222	14.222	10.836	9.481	8.127	7.901	6.972	11.520
E µsec	0.636	0.636	17.778	0.569	0.508	0.119	0.406	0.316	0.279	0.320
fV (Hz)	70.087	59.940	85.008	85.061	84.997	75.025	85.024	75.000	85.000	75.062
O msec	14.268	16.683	13.333	11.756	11.765	13.329	11.761	13.333	11.765	13.322
P msec	0.064	0.064	0.080	0.056	0.044	0.038	0.033	0.032	0.028	0.044
Q msec	1.080	1.048	0.427	0.503	0.524	0.475	0.483	0.491	0.433	0.568
R msec	12.711	15.253	12.800	11.179	11.183	12.804	11.235	12.800	11.294	12.667
S msec	0.413	0.318	0.027	0.019	0.015	0.013	0.011	0.011	0.009	0.044
Clock Freq. (MHz)	28.322	25.175	36.000	56.250	94.500	135.000	157.500	202.500	229.50	100.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Positive	Positive	Positive	Positive	Negative
V.Sync	Positive	Negative	Negative	Positive	Positive	Positive	Positive	Positive	Positive	Negative
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	SOG

Separate Sync



Sync-on-Green

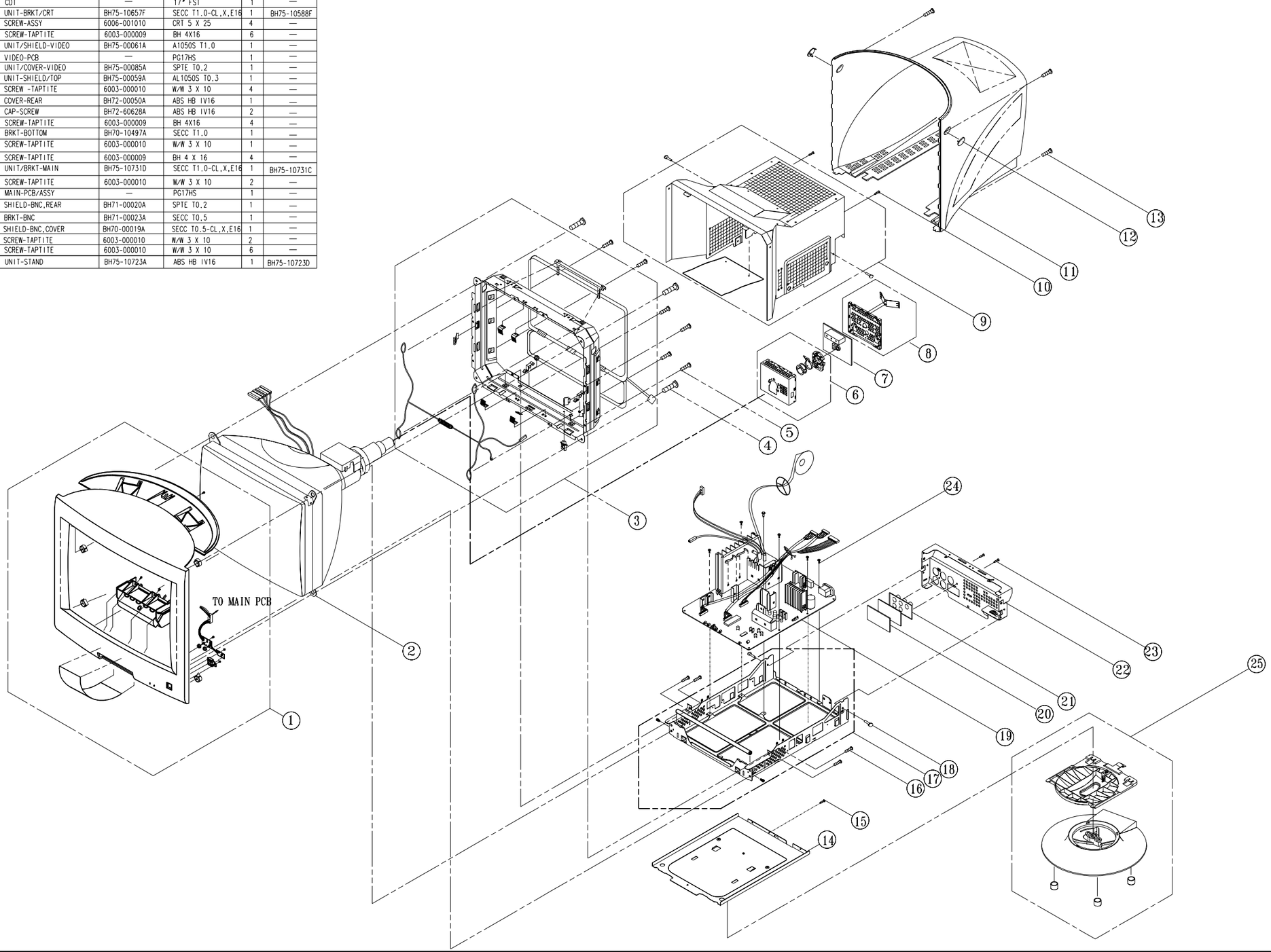


A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

6 Exploded View and Parts List

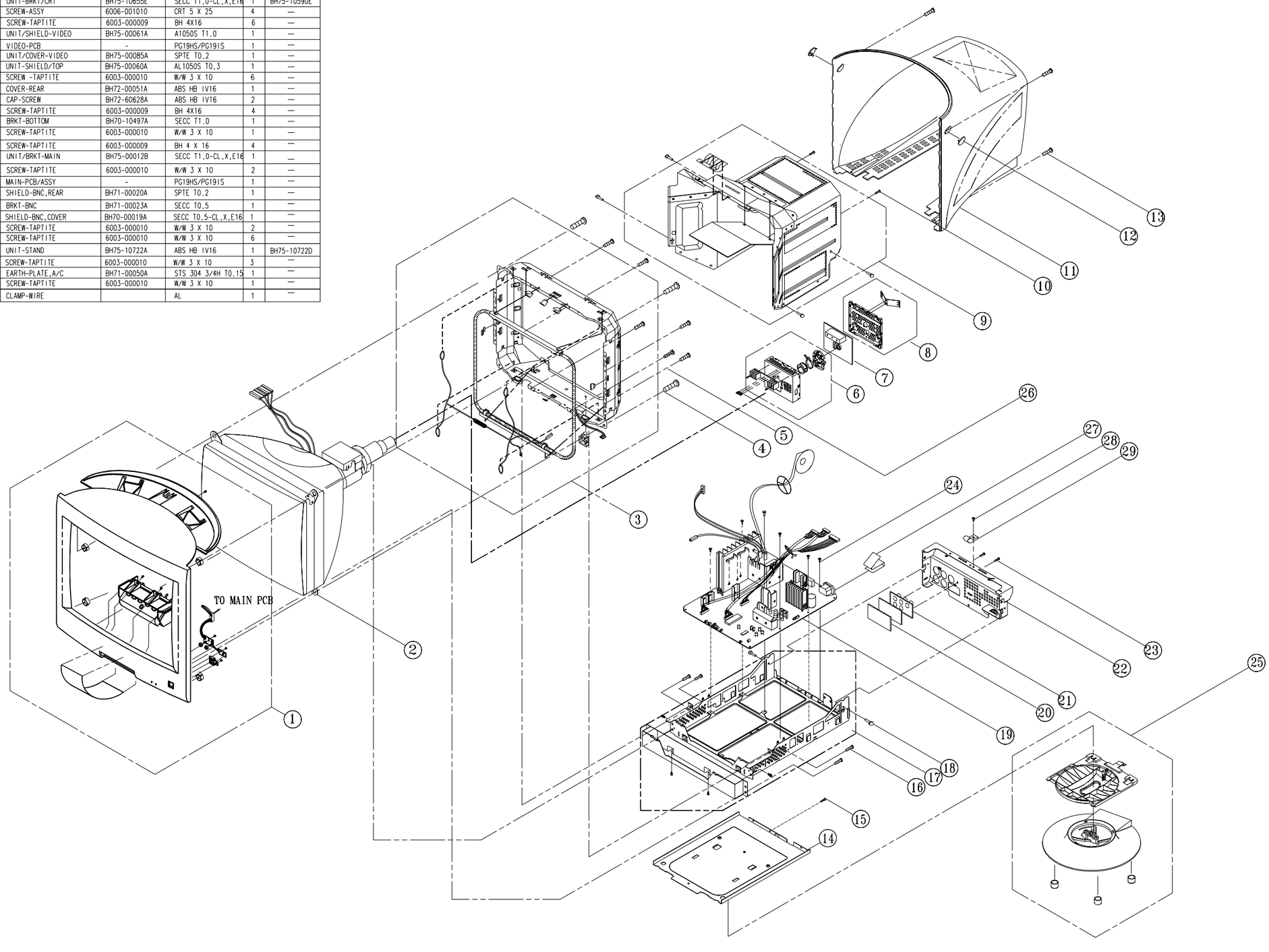
6-1 PG17**

NO	DESCRIPTION	CODE-NO(PG17HS)	SPECIFICATION	Q'TY	PG17IS
1.	UNIT-COVER FRONT	BH75-00080A	ABS HB IV16	1	BH75-00106A
2.	CDT	—	17" FST	1	—
3.	UNIT-BRKT/CRT	BH75-10657F	SECC T1.0-CL,X,E16	1	BH75-10588F
4.	SCREW-ASSY	6006-001010	CRT 5 X 25	4	—
5.	SCREW-TAPTITE	6003-000009	BH 4X16	6	—
6.	UNIT/SHIELD-VIDEO	BH75-00061A	A1050S T1.0	1	—
7.	VIDEO-PCB	—	PG17HS	1	—
8.	UNIT/COVER-VIDEO	BH75-00085A	SPTE T0.2	1	—
9.	UNIT-SHIELD/TOP	BH75-00059A	AL1050S T0.3	1	—
10.	SCREW -TAPTITE	6003-000010	W/W 3 X 10	4	—
11.	COVER-REAR	BH72-00050A	ABS HB IV16	1	—
12.	CAP-SCREW	BH72-60628A	ABS HB IV16	2	—
13.	SCREW-TAPTITE	6003-000009	BH 4X16	4	—
14.	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	—
15.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	1	—
16.	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	—
17.	UNIT/BRKT-MAIN	BH75-10731D	SECC T1.0-CL,X,E16	1	BH75-10731C
18.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
19.	MAIN-PCB/ASSY	—	PG17HS	1	—
20.	SHIELD-BNC,REAR	BH71-00020A	SPTE T0.2	1	—
21.	BRKT-BNC	BH71-00023A	SECC T0.5	1	—
22.	SHIELD-BNC,COVER	BH70-00019A	SECC T0.5-CL,X,E16	1	—
23.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
24.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	6	—
25.	UNIT-STAND	BH75-10723A	ABS HB IV16	1	BH75-10723D



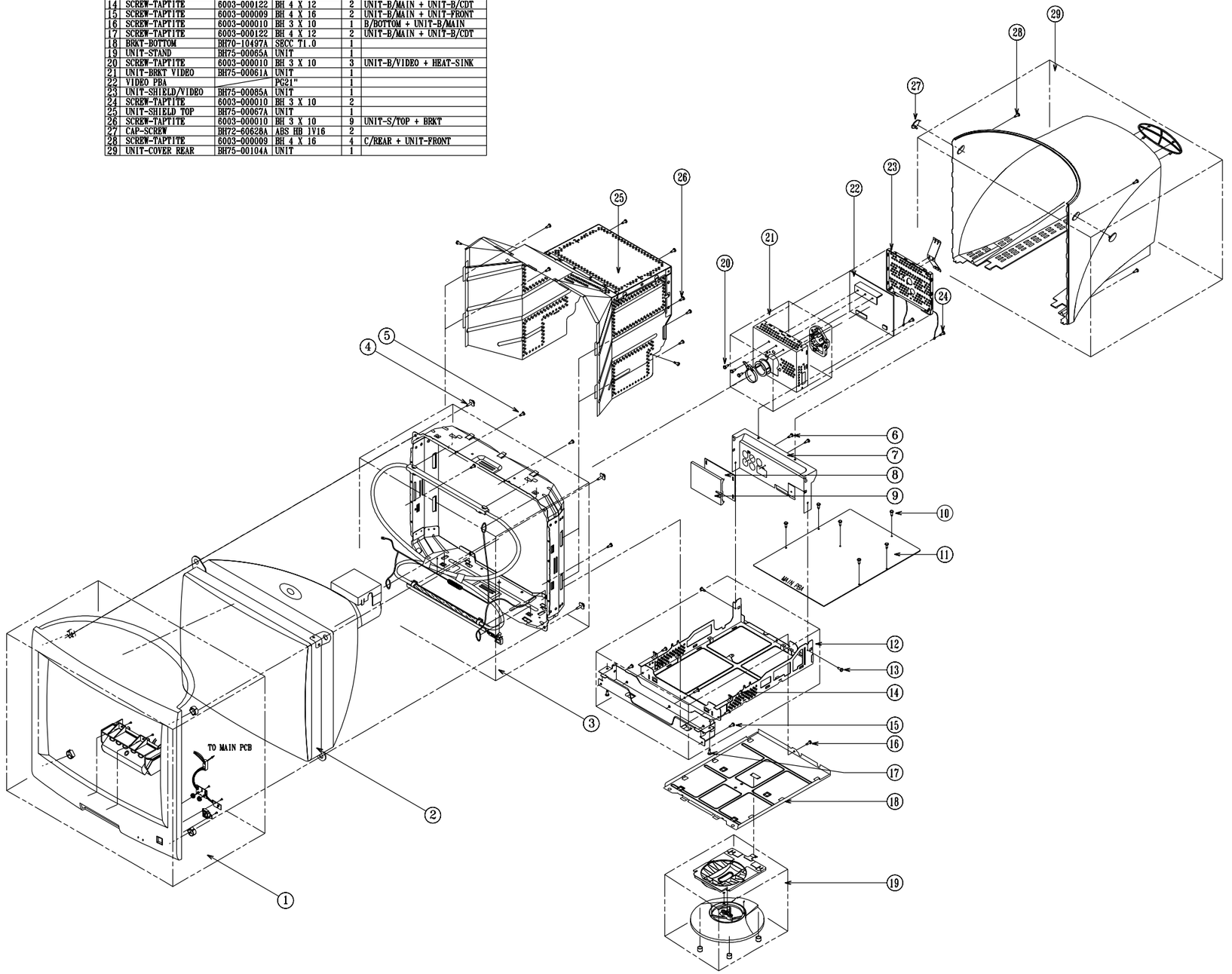
6-2 PG19**

NO	DESCRIPTION	CODE-NO(PG19HS)	SPECIFICATION	Q'TY	PG191S
1.	UNIT-COVER FRONT	BH75-00076A	ABS HB IV16	1	BH75-00105A
2.	CDT	-	PG19HS/PG191S	1	—
3.	UNIT-BRKT/CRT	BH75-10655E	SECC T1.0-CL,X,E16	1	BH75-10590E
4.	SCREW-ASSY	6006-001010	CRT 5 X 25	4	—
5.	SCREW-TAPTITE	6003-000009	BH 4X16	6	—
6.	UNIT/SHIELD-VIDEO	BH75-00061A	A1050S T1.0	1	—
7.	VIDEO-PCB	-	PG19HS/PG191S	1	—
8.	UNIT/COVER-VIDEO	BH75-00085A	SPTE T0.2	1	—
9.	UNIT-SHIELD/TOP	BH75-00060A	AL1050S T0.3	1	—
10.	SCREW -TAPTITE	6003-000010	W/W 3 X 10	6	—
11.	COVER-REAR	BH72-00051A	ABS HB IV16	1	—
12.	CAP-SCREW	BH72-60628A	ABS HB IV16	2	—
13.	SCREW-TAPTITE	6003-000009	BH 4X16	4	—
14.	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	—
15.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	1	—
16.	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	—
17.	UNIT/BRKT-MAIN	BH75-00012B	SECC T1.0-CL,X,E16	1	—
18.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
19.	MAIN-PCB/ASSY	-	PG19HS/PG191S	1	—
20.	SHIELD-BNC,REAR	BH71-00020A	SPTE T0.2	1	—
21.	BRKT-BNC	BH71-00023A	SECC T0.5	1	—
22.	SHIELD-BNC,COVER	BH70-00019A	SECC T0.5-CL,X,E16	1	—
23.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
24.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	6	—
25.	UNIT-STAND	BH75-10722A	ABS HB IV16	1	BH75-10722D
26.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	3	—
27.	EARTH-PLATE,A/C	BH71-00050A	STS 304 3/4H T0.15	1	—
28.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	1	—
29.	CLAMP-WIRE		AL	1	—



6-3 PG21**

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1	UNIT-COVER/FRONT	BH75-00063A	UNIT	1	
2	CDT		21" FST	1	
3	UNIT-BRKT/CDT	BH75-00066A	UNIT	1	
4	SCREW-ASS'Y	6006-001010	CDT 5 X 25	4	CDT + UNIT-FRONT
5	SCREW-TAPTITE	6003-000009	BH 4 X 16	6	UNIT-B/CDT + UNIT-FRONT
6	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	S/BNC-COVER + UNIT-BNC
7	SHIELD-BNC COVER	BH70-00019A	SECC T0.5	1	
8	BNC-PBA		PG21"	1	
9	SHIELD-BNC REAR	BH70-00020A	SPTE T0.5	1	
10	SCREW-TAPTITE	6003-000010	BH 3 X 10	6	MAIN-PBA + UNIT-B/MAIN
11	MAIN-PBA		PG21"	1	
12	UNIT-BRKT/MAIN	BH75-00091A	UNIT	1	
13	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	S/BNC-COVER + UNIT-B/MAIN
14	SCREW-TAPTITE	6003-000122	BH 4 X 12	2	UNIT-B/MAIN + UNIT-B/CDT
15	SCREW-TAPTITE	6003-000009	BH 4 X 16	2	UNIT-B/MAIN + UNIT-FRONT
16	SCREW-TAPTITE	6003-000010	BH 3 X 10	1	B/BOTTOM + UNIT-B/MAIN
17	SCREW-TAPTITE	6003-000122	BH 4 X 12	2	UNIT-B/MAIN + UNIT-B/CDT
18	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	
19	UNIT-STAND	BH75-00065A	UNIT	1	
20	SCREW-TAPTITE	6003-000010	BH 3 X 10	3	UNIT-B/VIDEO + HEAT-SINK
21	UNIT-BRKT VIDEO	BH75-00061A	UNIT	1	
22	VIDEO PBA		PG21"	1	
23	UNIT-SHIELD/VIDEO	BH75-00085A	UNIT	1	
24	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	
25	UNIT-SHIELD TOP	BH75-00067A	UNIT	1	
26	SCREW-TAPTITE	6003-000010	BH 3 X 10	9	UNIT-S/TOP + BRKT
27	CAP-SCREW	BH72-60628A	ABS HB 1V16	2	
28	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	C/REAR + UNIT-FRONT
29	UNIT-COVER REAR	BH75-00104A	UNIT	1	



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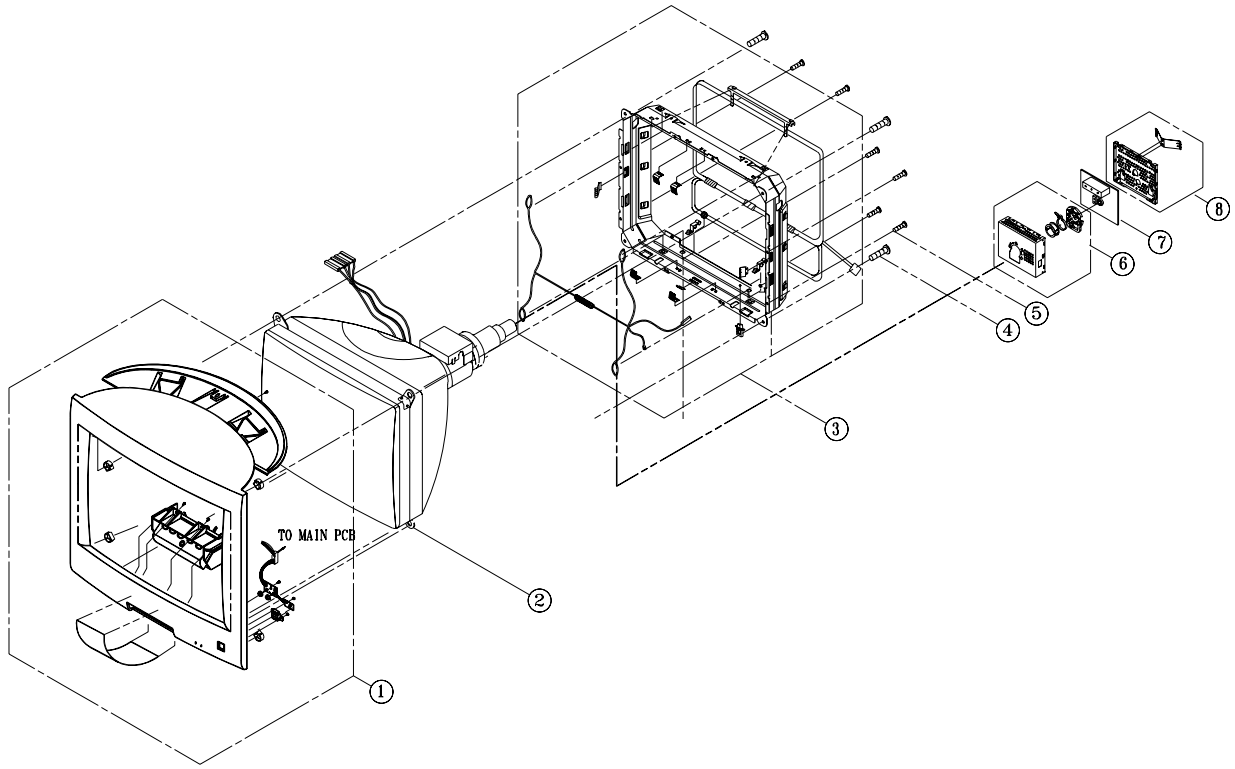
6 Exploded View and Parts List

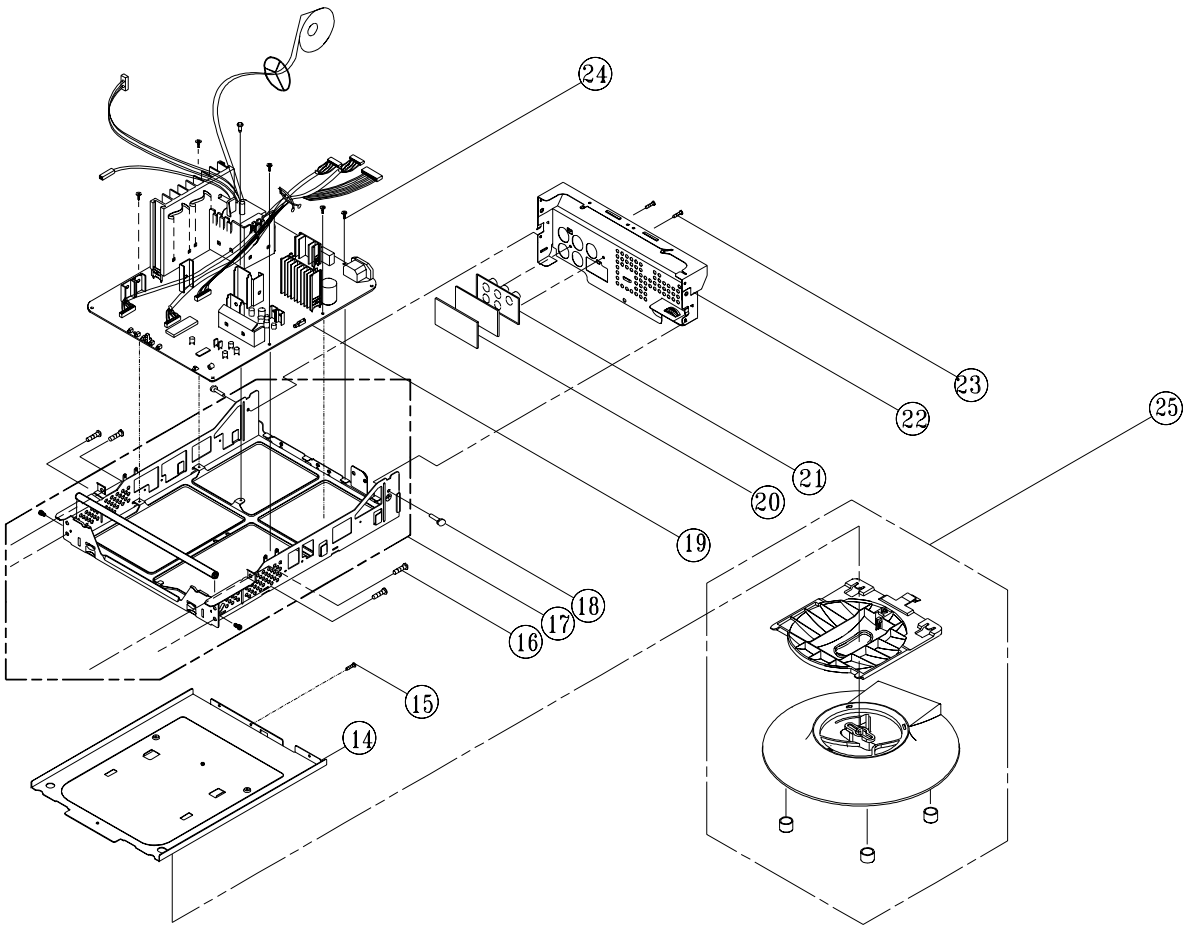
6-1 Front Cover & CRT Ass'y (PG17**)

NO	DESCRIPTION	CODE-NO(PG17HS)	SPECIFICATION	Q'TY	PG17IS
1.	UNIT-COVER FRONT	BH75-00080A	ABS HB IV16	1	BH75-00106A
2.	CDT	—	17" FST	1	—
3.	UNIT-BRKT/CRT	BH75-10657F	SECC T1.0-CL,X,E16	1	BH75-10588F
4.	SCREW-ASSY	6006-001010	CRT 5 X 25	4	—
5.	SCREW-TAPTITE	6003-000009	BH 4X16	6	—
6.	UNIT/SHIELD-VIDEO	BH75-00061A	A1050S T1.0	1	—
7.	VIDEO-PCB	—	PG17HS	1	—
8.	UNIT/COVER-VIDEO	BH75-00085A	SPTE T0.2	1	—



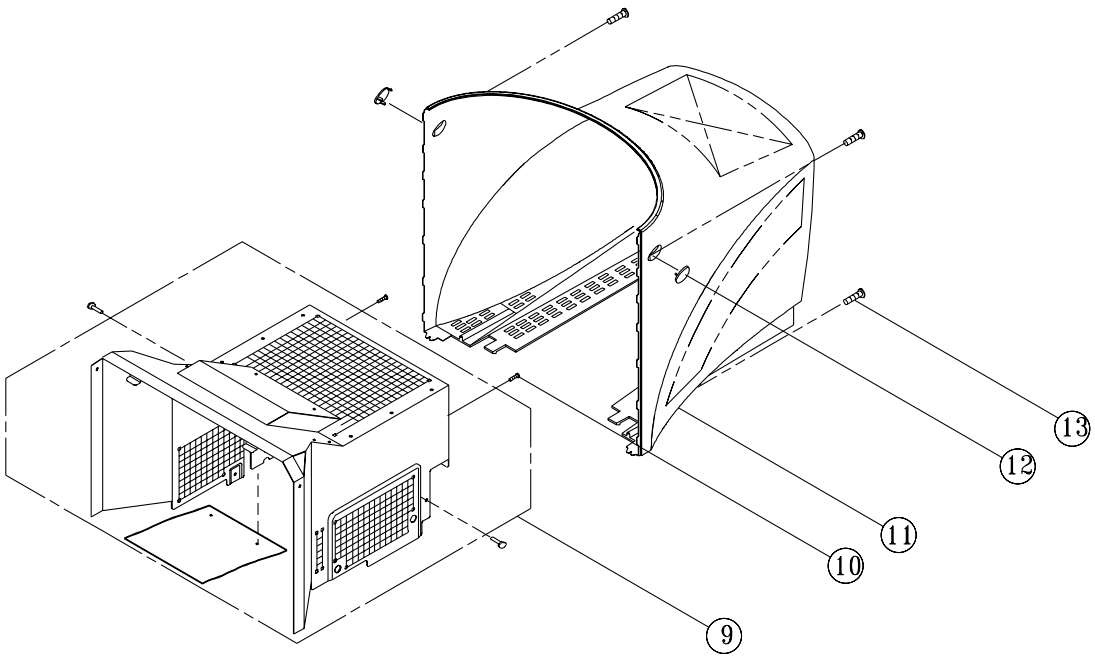
6-2 Chassis & Stand Ass'y (PG17**)

NO	DESCRIPTION	CODE-NO(PG17HS)	SPECIFICATION	Q'TY	PG17IS
14.	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	—
15.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	1	—
16.	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	—
17.	UNIT/BRKT-MAIN	BH75-10731D	SECC T1.0-CL,X,E16	1	BH75-10731C
18.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
19.	MAIN-PCB/ASSY	—	PG17HS	1	—
20.	SHIELD-BNC,REAR	BH71-00020A	SPTE T0.2	1	—
21.	BRKT-BNC	BH71-00023A	SECC T0.5	1	—
22.	SHIELD-BNC,COVER	BH70-00019A	SECC T0.5-CL,X,E16	1	—
23.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
24.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	6	—
25.	UNIT-STAND	BH75-10723A	ABS HB IV16	1	BH75-10723D



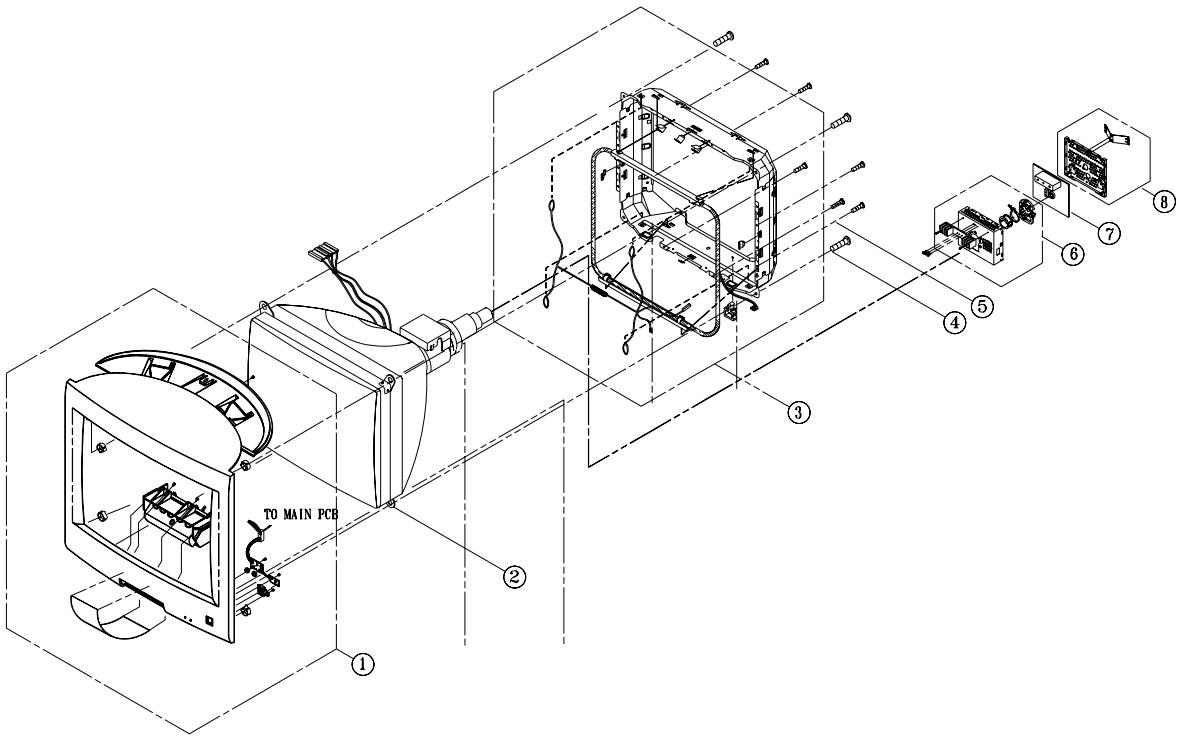
6-3 Rear Cover Ass'y (PG17**)

NO	DESCRIPTION	CODE-NO(PG17HS)	SPECIFICATION	Q'TY	PG17IS
9.	UNIT-SHIELD/TOP	BH75-00059A	AL1050S T0.3	1	—
10.	SCREW -TAPTITE	6003-000010	W/W 3 X 10	4	—
11.	COVER-REAR	BH72-00050A	ABS HB IV16	1	—
12.	CAP-SCREW	BH72-60628A	ABS HB IV16	2	—
13.	SCREW-TAPTITE	6003-000009	BH 4X16	4	—



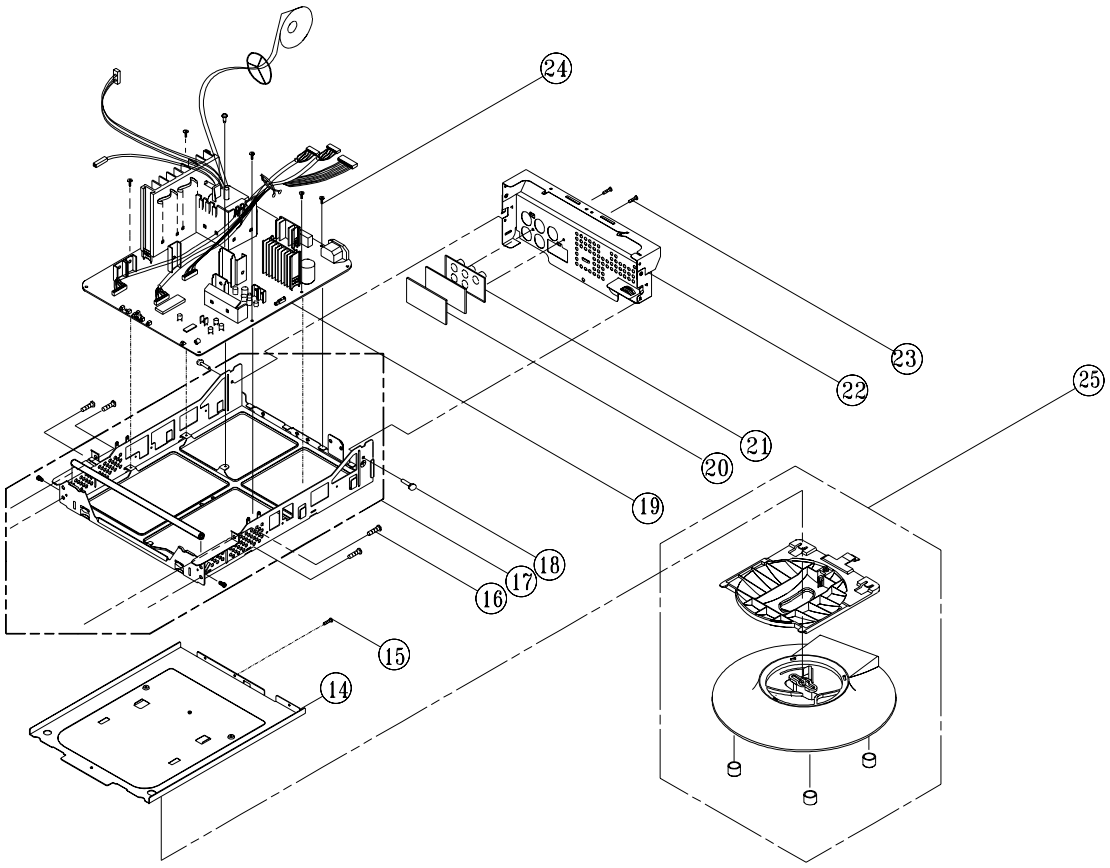
6-4 Front Cover & CRT Ass'y (PG19**)

NO	DESCRIPTION	CODE-NO(PG19HS)	SPECIFICATION	Q'TY	PG191S
1.	UNIT-COVER FRONT	BH75-00076A	ABS HB IV16	1	BH75-00105A
2.	CDT	-	PG19HS/PG191S	1	—
3.	UNIT-BRKT/CRT	BH75-10655E	SECC T1.0-CL,X,E16	1	BH75-10590E
4.	SCREW-ASSY	6006-001010	CRT 5 X 25	4	—
5.	SCREW-TAPTITE	6003-000009	BH 4X16	6	—
6.	UNIT/SHIELD-VIDEO	BH75-00061A	A1050S T1.0	1	—
7.	VIDEO-PCB	-	PG19HS/PG191S	1	—
8.	UNIT/COVER-VIDEO	BH75-00085A	SPTE T0.2	1	—



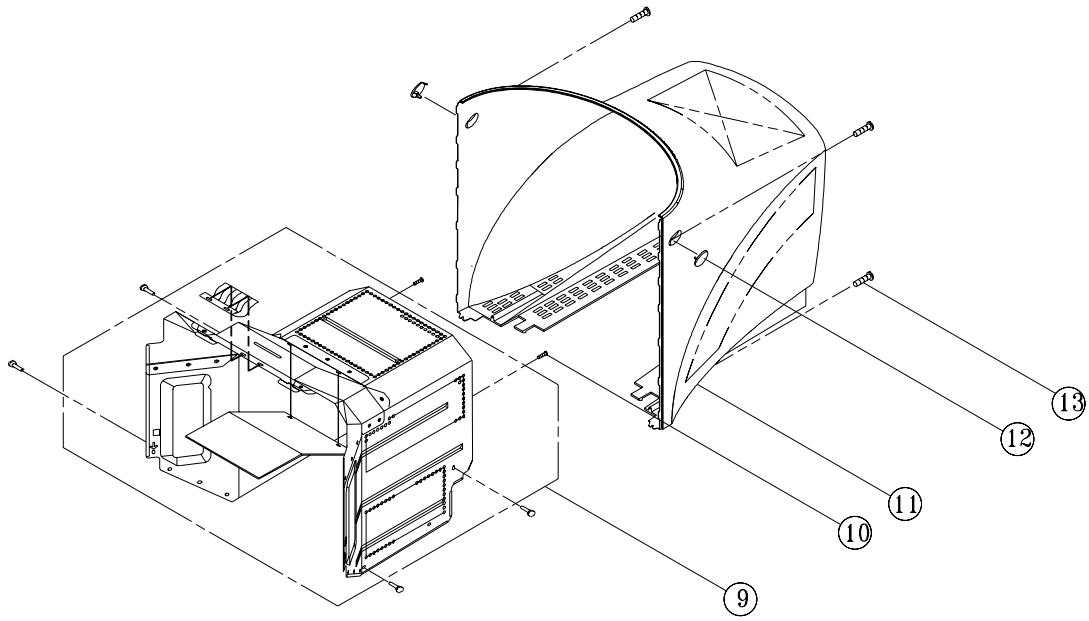
6-5 Chassis & Stand Ass'y (PG19**)

NO	DESCRIPTION	CODE-NO(PG17HS)	SPECIFICATION	Q'TY	PG17IS
14.	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	—
15.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	1	—
16.	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	—
17.	UNIT/BRKT-MAIN	BH75-10731D	SECC T1.0-CL,X,E16	1	BH75-10731C
18.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
19.	MAIN-PCB/ASSY	—	PG17HS	1	—
20.	SHIELD-BNC,REAR	BH71-00020A	SPTE T0.2	1	—
21.	BRKT-BNC	BH71-00023A	SECC T0.5	1	—
22.	SHIELD-BNC,COVER	BH70-00019A	SECC T0.5-CL,X,E16	1	—
23.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	2	—
24.	SCREW-TAPTITE	6003-000010	W/W 3 X 10	6	—
25.	UNIT-STAND	BH75-10723A	ABS HB IV16	1	BH75-10723D



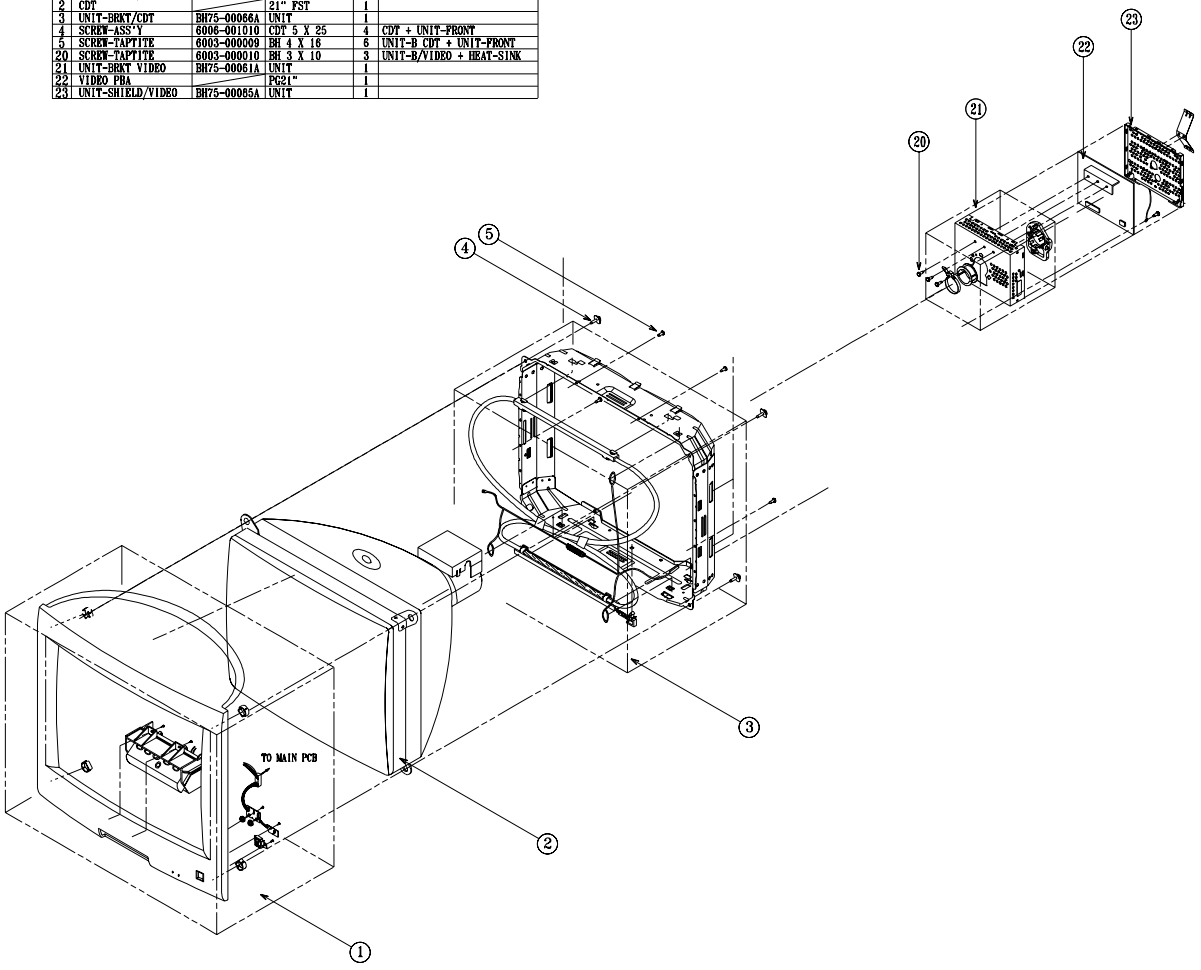
6-6 Rear Cover Ass'y (PG19**)

NO	DESCRIPTION	CODE-NO(PG19HS)	SPECIFICATION	Q'TY	PG19IS
9.	UNIT-SHIELD/TOP	BH75-00060A	AL1050S T0.3	1	—
10.	SCREW -TAPTITE	6003-000010	W/W 3 X 10	6	—
11.	COVER-REAR	BH72-00051A	ABS HB IV16	1	—
12.	CAP-SCREW	BH72-60628A	ABS HB IV16	2	—
13.	SCREW-TAPTITE	6003-000009	BH 4X16	4	—



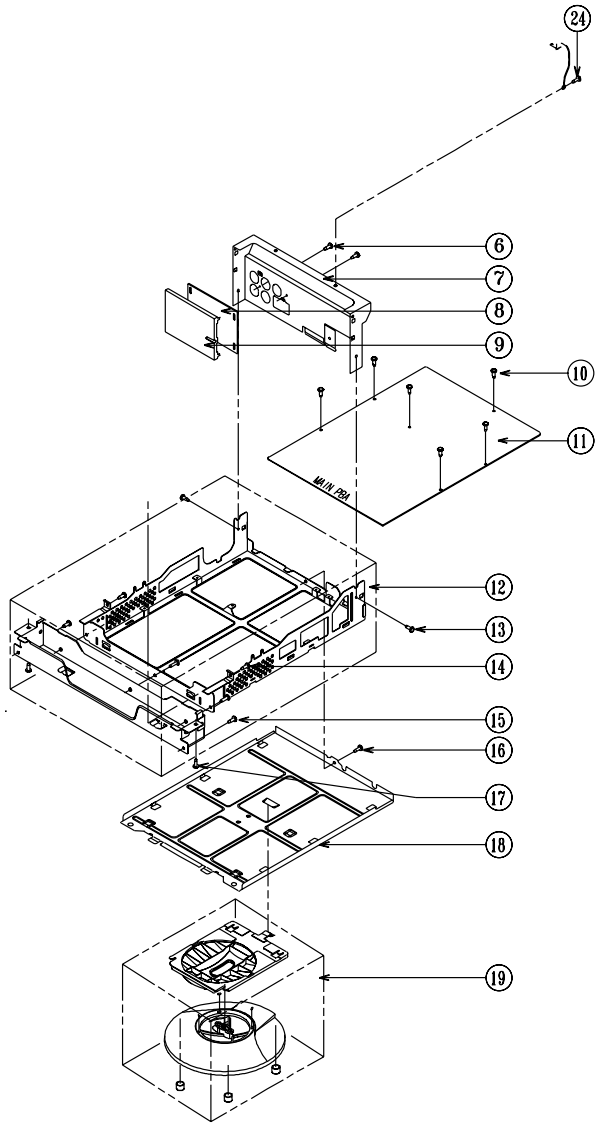
6-7 Front Cover & CRT Ass'y (PG21**)

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1	UNIT-COVER/FRONT	BH75-00063A	UNIT	1	
2	CDT		21" FST	1	
3	UNIT-BRKT/CDT	BH75-00066A	UNIT	1	
4	SCREW-ASS'Y	6006-001010	CDT 5 X 25	4	CDT + UNIT-FRONT
5	SCREW-TAPTITE	6003-000009	BH 4 X 16	6	UNIT-B CDT + UNIT-FRONT
20	SCREW-TAPTITE	6003-000010	BH 3 X 10	3	UNIT-B/VIDEO + HEAT-SINK
21	UNIT-BRKT VIDEO	BH75-00061A	UNIT	1	
22	VIDEO PBA		PG21"	1	
23	UNIT-SHIELD/VIDEO	BH75-00085A	UNIT	1	



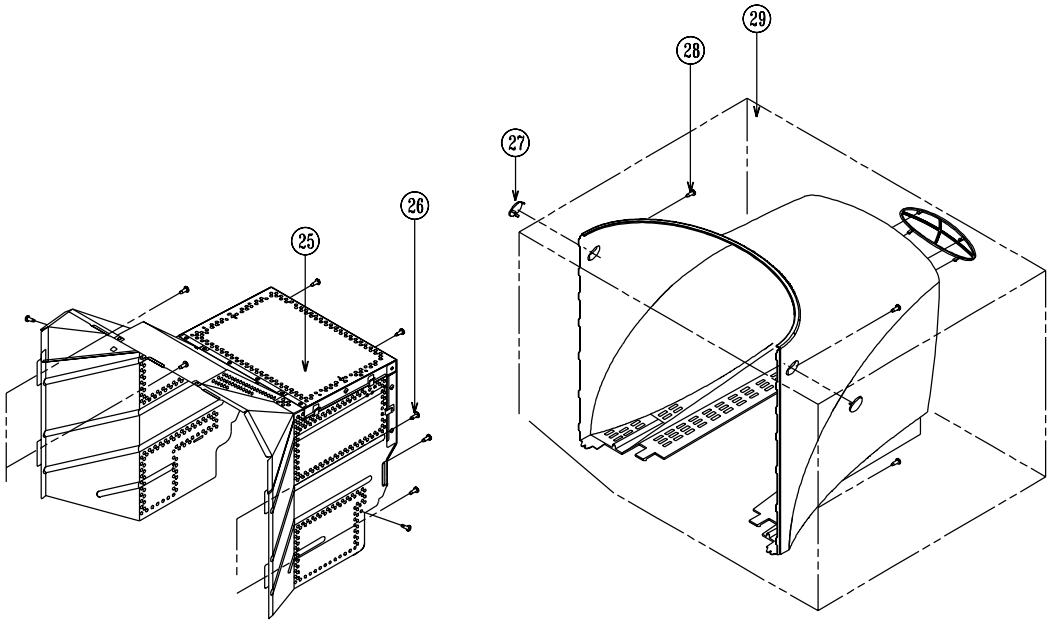
6-8 Chassis & Stand Ass'y (PG21**)

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
6	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	S/BNC-COVER + UNIT-BNC
7	SHIELD-BNC COVER	BH70-00019A	SECC T0.5	1	
8	BNC-PBA		PG21"	1	
9	SHIELD-BNC REAR	BH70-00020A	SPTE T0.5	1	
10	SCREW-TAPTITE	6003-000010	BH 3 X 10	6	MAIN-PBA + UNIT-B/MAIN
11	MAIN-PBA		PG21"	1	
12	UNIT-BRKT/MAIN	BH75-00091A	UNIT	1	
13	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	S/BNC-COVER + UNIT-B/MAIN
14	SCREW-TAPTITE	6003-000122	BH 4 X 12	2	UNIT-B/MAIN + UNIT-B/CDT
15	SCREW-TAPTITE	6003-000009	BH 4 X 16	2	UNIT-B/MAIN + UNIT-FRONT
16	SCREW-TAPTITE	6003-000010	BH 3 X 10	1	B/BOTTOM + UNIT-B/MAIN
17	SCREW-TAPTITE	6003-000122	BH 4 X 12	2	UNIT-B/MAIN + UNIT-B/CDT
18	BRKT-BOTTOM	BH70-10497A	SECC T1.0	1	
19	UNIT-STAND	BH75-00065A	UNIT	1	
24	SCREW-TAPTITE	6003-000010	BH 3 X 10	2	



6-9 Rear Cover Ass'y (PG21**)

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
25	UNIT-SHIELD TOP	BH75-00067A	UNIT	1	
26	SCREW-TAPTITE	6003-000010	BH 3 X 10	9	UNIT-S/TOP + BRKT
27	CAP-SCREW	BH72-60628A	ABS HB IV16	2	
28	SCREW-TAPTITE	6003-000009	BH 4 X 16	4	C/REAR + UNIT-FRONT
29	UNIT-COVER REAR	BH75-00104A	UNIT	1	



Memo

7 Electrical Parts List

7-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD261	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD262	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD265	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD266	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD401	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD402	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD403	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD501	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD503	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD532	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD601	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD602	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD605	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD630	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD631	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD651	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD663	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C201	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C202	2401-000486	C-AL	10uF,20%,50V,GP,TP,6.3x7mm,5	
C203	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C204	2201-000247	C-CERAMIC,DISC	15pF,5%,50V,CH,TP,5x3,5	
C206	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C207	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C208	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C209	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C210	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C211	2301-000519	C-FILM,PEF	3.3nF,5%,100V,TP,5.8x3x12.5,5m	
C212	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,CH,TP,8x3,5	
C213	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,TP,4x3.5,5	
C214	2401-001509	C-AL	47uF,20%,16V,GP,TP,6.3x7mm,2.5	
C215	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C216	2401-002299	C-AL	4.7uF,20%,50V,GP,TP,5x7,5	
C217	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C218	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C219	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,CH,TP,8x3,5	
C220	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,CH,TP,8x3,5	
C221	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C222	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C223	2201-000138	C-CERAMIC,DISC	100pF,10%,50V,Y5P,TP,4.0X4.0,2	
C224	2401-001509	C-AL	47uF,20%,16V,GP,TP,6.3x7mm,2.5	
C225	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C226	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C262	2301-000016	C-FILM,PEF	22nF,5%,100V,TP,7.2x4.5x9.0mm,	
C263	2202-002149	C-CERAMIC,MLC-RADIAL	0.82NF,2%,50V,NPO,TP,5.1X3.2X6.4MM,5	
C264	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	
C265	2301-000005	C-FILM,PEF	33nF,5%,100V,TP,5.8x12.5x3,5	

Loc. No.	Code No.	Description	Specification	Remarks
C266	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C267	2202-002148	C-CERAMIC,MLC-RADIAL	0.68NF,2%,50V,NP0,TP,5.1X3.2X6.4MM,5	
C268	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C269	2202-000654	C-CERAMIC,MLC-RADIAL	100nF,10%,50V,X7R,TP,5.1x6.6,5	
C270	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	
C271	2305-001041	C-FILM,MPEF	220nF,5%,63V,TP,7.5x4.5x13.5,5	
C272	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,TP,4x3.5,5	
C273	2301-000005	C-FILM,PEF	33nF,5%,100V,TP,5.8x12.5x3,5	
C274	2401-003080	C-AL	3.3UF,20%,50V,BP,TP,5X11,2.5	
C275	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C276	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C277	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C278	2401-003473	C-AL	680UF,20%,16V,GP,TP,10X12.5MM,5	
C279	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C280	2201-000215	C-CERAMIC,DISC	120pF,5%,50V,CH,TP,9.5x3,5	
C282	2301-000168	C-FILM,PEF	150nF,5%,100V,TP,11.5x19mm,7.5	
C283	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	
C284	2305-000412	C-FILM,MPEF	470nF,5%,63V,TP,-,5mm	
C285	2401-000597	C-AL	1uF,20%,50V,GP,TP,4x7mm,1.5mm	
C301	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C302	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C305	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C306	2401-000852	C-AL	220uF,20%,35V,GP,TP,8x11.5mm,5	
C307	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C308	2305-000237	C-FILM,MPEF	1uF,5%,63V,TP,7.5x15.5mm,5mm	
C309	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C310	2301-000013	C-FILM,PEF	4.7nF,5%,100V,TP,10.5x12.5x6.5	
C311	2401-000039	C-AL	1000uF,20%,16V,GP,TP,10x16,5	
C312	2401-000597	C-AL	1uF,20%,50V,GP,TP,4x7mm,1.5mm	
C313	2301-000013	C-FILM,PEF	4.7nF,5%,100V,TP,10.5x12.5x6.5	
C401	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
C402	2401-000046	C-AL	10uF,20%,250V,GP,TP,10x20,5	
C403	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C406	2401-000049	C-AL	47uF,20%,100V,WT,TP,10x16,5	
C407	2201-000291	C-CERAMIC,DISC	1nF,10%,500V,Y5P,TP,8.5x5MM,5	
C408	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C409	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C410	2301-000020	C-FILM,PEF	27nF,5%,100V,TP,7.3x4x12.5mm,5	
C411	2301-001304	C-FILM,PPF	1.5NF,5%,2.5KV,TP,23X17X11MM,7.5	⚠
C412	2301-001169	C-FILM,PPF	1.8nF,5%,2.5KV,TP,22.5x20x12.5	⚠
C418	2301-000102	C-FILM,PEF	1.2nF,5%,100V,TP,5.4x10mm,5mm	
C419	2201-000131	C-CERAMIC,DISC	100pF,10%,2KV,Y5P,TP,8x6,5	
C420	2401-000025	C-AL	100uF,20%,16V,GP,TP,6.3x11,5	
C421	2401-000613	C-AL	1uF,20%,50V,WT,TP,5x11,5	
C422	2301-000174	C-FILM,PEF	15nF,5%,100V,TP,7.2x4.0x7.5mm,	
C423	2202-000561	C-CERAMIC,MLC-RADIAL	680pF,5%,50V,NPO,TP,5.1x3.2,5.	
C424	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	

Loc. No.	Code No.	Description	Specification	Remarks
C425	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C426	2202-000470	C-CERAMIC,MLC-RADIAL	330pF,5%,100V,NPO,TP,5.1x5.1x3	
C427	2303-000011	C-FILM,PPF	1nF,5%,100V,TP,14x11.5mm,7.5mm	
C428	2301-000020	C-FILM,PEF	27nF,5%,100V,TP,7.3x4x12.5mm,5	
C429	2301-000284	C-FILM,PEF	47nF,5%,100V,TP,8.5x12.5mm,5mm	
C430	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C431	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C432	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x	
C451	2301-001249	C-FILM,MPPF	68nF,5%,400V,TP,19x7x15mm,7.5	
C452	2301-001259	C-FILM,MPPF	100nF,5%,400V,TP,19x8x16,7.5mm	
C453	2306-000179	C-FILM,MPPF	300nF,5%,250V,TP,20x18.5x10.5,	
C454	2306-000234	C-FILM,MPPF	560nF,5%,250V,BK,26x20x13,20	
C455	2306-000147	C-FILM,MPPF	1uF,5%,250V,BK,26x24x15,22.5mm	
C456	2306-000131	C-FILM,MPPF	150nF,5%,250V,TP,19x16x7.5,7.5	
C457	2301-001249	C-FILM,MPPF	68nF,5%,400V,TP,19x7x15mm,7.5	
C459	2401-003080	C-AL	3.3UF,20%,50V,BP,TP,5X11,2.5	
C501	2301-001027	C-FILM,PEF	15nF,10%,250V,TP,9.5x12x4.5,5m	
C502	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C503	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C504	2401-001576	C-AL	47uF,20%,50V,GP,TP,8x11.5,5	⚠
C505	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	
C521	2301-000294	C-FILM,PEF	56nF,5%,100V,TP,9.5x12.5mm,5mm	
C522	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C523	2401-000292	C-AL	100uF,20%,16V,WT,TP,8x11.5mm,5	
C524	2201-000163	C-CERAMIC,DISC	10nF,79.8,50V,Y5V,TP,6.5x5mm,2	
C525	2305-001041	C-FILM,MPEF	220nF,5%,63V,TP,7.5x4.5x13.5,5	
C526	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C527	2401-001195	C-AL	33uF,20%,50V,GP,TP,6.3x11,5	
C528	2401-001576	C-AL	47uF,20%,50V,GP,TP,8x11.5,5	
C530	2201-000469	C-CERAMIC,DISC	330pF,10%,500V,Y5P,TP,6x4,5	
C531	2303-000147	C-FILM,PPF	1NF,5%,2KV,TP,23X13X8MM,7.5	
C532	2401-000638	C-AL	2.2uF,20%,350V,WT,TP,10x12.5mm	
C533	2201-000732	C-CERAMIC,DISC	680pF,10%,1KV,Y5P,TP,6.3x4,5	
C534	2401-001576	C-AL	47uF,20%,50V,GP,TP,8x11.5,5	
C535	2401-000771	C-AL	220uF,20%,100V,WT,TP,16x25,7.5	
C536	2401-003080	C-AL	3.3UF,20%,50V,BP,TP,5X11,2.5	
C537	2401-000638	C-AL	2.2uF,20%,350V,WT,TP,10x12.5mm	
C538	2305-000665	C-FILM,MPEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	
C539	2401-000649	C-AL	2.2uF,20%,50V,BP,TP,5x11,5	
C540	2201-000732	C-CERAMIC,DISC	680pF,10%,1KV,Y5P,TP,6.3x4,5	
C551	2401-000043	C-AL	1uF,20%,160V,GP,TP,6.3x11,5	
C552	2305-000004	C-FILM,MPEF	220nF,10%,100V,TP,12.7x16,5mm	
C555	2305-000004	C-FILM,MPEF	220nF,10%,100V,TP,12.7x16,5mm	
C556	2201-000285	C-CERAMIC,DISC	1nF,10%,1KV,Y5P,TP,10x5,5	
C557	2201-000012	C-CERAMIC,DISC	220pF,10%,1KV,Y5P,TP,6x5,5	
C558	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,CH,TP,8x3,5	
C603	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x	

Loc. No.	Code No.	Description	Specification	Remarks
C604	2301-001285	C-FILM,MPPF	680NF,10%,275V,BK,31X11X21MM,27.5	⚠
C605	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C606	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C607	2401-000015	C-AL	33uF,20%,50V,WT,-,6.3x11mm,2.5	
C608	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C609	2401-003483	C-AL	270uF,20%,400V,GP,BK,25.4x45,10	⚠
C610	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x	
C611	2201-000012	C-CERAMIC,DISC	220pF,10%,1KV,Y5P,TP,6x5,5	
C612	2201-000129	C-CERAMIC,DISC	100pF,10%,1KV,Y5P,TP,6x5,5	
C614	2301-000016	C-FILM,PEF	22nF,5%,100V,TP,7.2x4.5x9.0mm,	
C615	2301-000168	C-FILM,PEF	150nF,5%,100V,TP,11.5x19mm,7.5	
C616	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C617	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C633	2401-000010	C-AL	220uF,20%,16V,GP,-,6.3x11mm,2.	⚠
C634	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C635	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3	
C636	2401-000235	C-AL	100uF,20%,100V,WT,TP,12.5x20,5	
C638	2401-000040	C-AL	47uF,20%,250V,WT,TP,16x25mm,7	
C639	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	
C640	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C641	2301-000013	C-FILM,PEF	4.7nF,5%,100V,TP,10.5x12.5x6.5	
C642	2401-000317	C-AL	100uF,20%,25V,WT,TP,8x11.5,5	
C643	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C644	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C645	2401-001422	C-AL	470uF,20%,35V,WT,TP,12.5x25,5	
C647	2301-000174	C-FILM,PEF	15nF,5%,100V,TP,7.2x4.0x7.5mm	
C648	2301-000004	C-FILM,PEF	2.2nF,5%,100V,TP,5.5X10X2.9,5m	
C649	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x	
C652	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C653	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C654	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C656	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	⚠
C661	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C662	2401-000010	C-AL	220uF,20%,16V,GP,-,6.3x11mm,2	
C663	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C664	2201-000129	C-CERAMIC,DISC	100pF,10%,1KV,Y5P,TP,6x5,5	
C665	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C666	2401-000913	C-AL	22uF,20%,16V,GP,TP,5x11,5	
C668	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x	
CIS	6501-000004	CABLE TIE	DA-80,T1,W2.5,L80,NTR,NYLON66	
CIS	BH64-30002A	LOCKER-WIRE	NYLON66,NTR,CMG7377,DARW-60-N	
CIS	BH75-00060A	UNIT/SHIELD-COVER	PG19HS,A1050S	
CIS	BH71-00004A	EARTH-PLATE/CDT	CDA4507,STS 301,T0.15	
CIS	BH71-00024A	SHIELD-COVER	PG19HS,A1050S,T0.3	
CIS	BH71-00025A	SHIELD-ANODE	PG19HS,A1050S,T0.3	
CIS	BH72-00052A	SHEET-ANODE	PG17HS,PP,VO,WHITE,T1.0	

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BH75-10655E	UNIT/BRKT-CDT	PG19HS,SECC T1.0	
CIS	6501-000004	CABLE TIE	DA-80,T1,W2.5,L80,NTR,NYLON66	
CIS	6502-000131	CABLE CLAMP	DAWS-1NA,ID10,-,NTR,NYLON66	
CIS	BH27-00020A	COIL-DEGAUSSING	DAWS-1NA,ID10,-,NTR,NYLON66	
CIS	BH39-00054A	CBF-HARNESS	1P,320MM,BLK,UL1015,3*0.16TA*16/AWG	
CIS	BH70-10500B	BRKT-CDT/R,L	PG19*,SECC-CL,T1.0	
CIS	BH70-10536B	BRKT-CDT/TOP	PG19H/L,SECC-CL,T1.0	
CIS	BH70-10537B	BRKT-CDT/BOTTOM	PG19HS/LS,SECC-CL,T1.0	
CIS	BH71-00001A	EARTH-PLATE	CHB7707,PBS,T0.3	
CIS	BH72-60778A	COVER-D/COIL	CHB7707,PP,C/R,T2.0	
CIS	0203-000005	TAPE-ACETATE	SGT730,T0.26,W19,L3000,BLK	
CIS	0204-001006	COMPOUND	KS650N,-,0.9-1.1,1L,20L	
CIS	3302-000006	MAGNET-RUBBER	AF,14G,1620-1980G,0.58-0.9MGOe	
CIS	3309-000002	MAGNET-SHEET	5x20x80mm,UL94V-0,2	
CIS	BH03-00029A	CRT-TN	19,0.26D,M46LPA507XX608(F3G1),DOUB	
CIS	3301-000130	CORE-FERRITE	AC,23.5x9.4x12.6mm,1500,2800G	
CIS	6502-000128	CABLE CLAMP	DAWH-45N,ID20.6,-,NTR,NYLON66	
CIS	6502-000135	CABLE CLAMP	DAWS-2NA,ID10,-,NTR,NYLON66	
CIS	BH39-00059A	CBF-HARNESS	3P/3P,420MM,GRY,UL2547,AWG26-2C	
CIS	BH39-00060A	CBF-HARNESS	15P/15P,180MM,WHT/BLU/RED/BLK,UL1007	
CIS	BH39-40306C	CBF-HARNESS	60MM,BLK,1015,AWG22	
CIS	BH70-10497B	BRKT-BOTTOM	PG17/19*,SECC-CL,T1.0	
CIS	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	
CIS	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	
CIS	0203-001201	TAPE-PAPER	#FB-300,T0.16,W6,L2000M,R/BLU	
CIS	BH46-00001B	MICOM	PG17HS	
CIS	1204-001508	IC-VERTICAL DEF.	KA2142,SIP,10P,-,PLASTIC,35V,15W,-20TO+	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH62-00003A	HEAT/SINK-V.IC	T1,A1050S,DA/DB	
CIS	1203-000001	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	
CIS	1203-000165	IC-POSI.ADJUST REG.	78R12,TO-220,3P,12V,-,0to+	
CIS	BH61-00004A	SPRING-TR	CDA,CDB,SUS304,T0.5	
CIS	BH62-00013A	HEAT SINK-TR	A1050S T1.0,PEGSUS	
CIS	BH61-00004A	SPRING-TR	CDA,CDB,SUS304,T0.5	
CIS	BH62-00020A	HEAT SINK-TR	A1050S,T1.0,-,PG21	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING	
CIS	0502-000348	TR-POWER	TIP29C,NPN,2W,TO-220,15-75	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING	
CIS	0502-000351	TR-POWER	TIP30,PNP,2W,TO-220AB,15-75	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING	
CIS	0402-001289	DIODE-RECTIFIER	31DF6,600V,3A,DO-201AD,BK	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING	
CIS	0402-000016	DIODE-RECTIFIER	UF5404,400V,3A,DO-201AD,TP	

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING	
CIS	BH13-00012A	IC-POWER SWITCH	PG17/19/21,DP308O,TO-3P-5L,5P,POWER	
CIS	BH61-70003A	SPRING	CVT4857,STS304-W1/2H,T0.5,W3.8	
CIS	BH62-30412D	HEAT/SINK	A6063S,T1.8,CSH780B	
CIS	0402-001215	DIODE-RECTIFIER	SDS10U150S,1500V,10A,TO-220F,S	
CIS	0502-001143	TR-POWER	2SC5583,NPN,150W,TOP-3L,ST,6-1	
CIS	BH62-00001A	INSULATION-MICA	MICA,W25XL35XT0.15,CSM920B	
CIS	BH71-10436A	COVER-BRKT H/S	CSM920B,SPTE,T0.5,SM,SE	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH62-30425A	HEAT/SINK	A1050S,T1.0,CSM920B	
CN201	3711-004182	CONNECTOR-HEADER	BOX,10P,1R,STRAIGHT,SN	
CN203	3711-004351	CONNECTOR-HEADER	NOWALL,16P,1R,2.54MM,STRAIGHT,SN	
CN204	3711-004352	CONNECTOR-HEADER	BOX,15P,1R,2MM,STRAIGHT,SN	
CN205	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN206	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN207	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN209	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN211	3711-004349	CONNECTOR-HEADER	BOX,3P,1R,2MM,STRAIGHT,SN	
CN212	3711-004349	CONNECTOR-HEADER	BOX,3P,1R,2MM,STRAIGHT,SN	
CN401	3711-003989	CONNECTOR-HEADER	NOWALL,4P,1R,8mm,STRAIGHT,SN	
CN405	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN406	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN407	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN408	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN409	3711-000885	CONNECTOR-HEADER	3WALL,3P,1R,2.5mm,STRAIGHT,SN	
CN410	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN411	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN412	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN413	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN601	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN602	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN603	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN606	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
D201	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D202	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D203	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D262	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D264	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D301	0402-000272	DIODE-RECTIFIER	UF4001,50V,1A,DO-41,TP	
D302	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D401	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D402	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D403	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D405	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D406	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D407	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D408	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	

Loc. No.	Code No.	Description	Specification	Remarks
D409	0402-000208	DIODE-RECTIFIER	EK-04,40V,1.5A,DO-41	
D411	0402-000007	DIODE-RECTIFIER	1N4937GP,600V,1A,DO-41,TP	
D412	0402-000007	DIODE-RECTIFIER	1N4937GP,600V,1A,DO-41,TP	
D413	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D414	0402-000272	DIODE-RECTIFIER	UF4001,50V,1A,DO-41,TP	
D415	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
D416	0402-000454	DIODE-RECTIFIER	RG10V1,400V,1.2A,DO-201	
D451	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D501	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
D502	0402-001114	DIODE-RECTIFIER	1N4936GP,400V,1A,DO-204AL,TP	
D503	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D504	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D506	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D521	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D522	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D523	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D524	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-201AD,BK	
D525	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D526	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-201AD,BK	
D527	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D528	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D529	0402-000007	DIODE-RECTIFIER	1N4937GP,600V,1A,DO-41,TP	
D530	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	⚠
D551	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D552	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D553	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D554	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D601	0402-001227	DIODE-BRIDGE	D3SBA60,600V,2.3A,SIP-4,BK	⚠
D604	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	
D605	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D606	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D607	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D630	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	⚠
D633	0402-000250	DIODE-RECTIFIER	RG4C,1000V,1A	⚠
D634	0402-001190	DIODE-RECTIFIER	RG10Z,200V,1.2A,DO-15,TP	⚠
D635	0402-001118	DIODE-RECTIFIER	UF1G,400V,1.2A,DO-204AL,TP	
D636	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D638	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	⚠
D639	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D661	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D662	0402-000126	DIODE-RECTIFIER	1N4001GP,50V,1A,DO-41,TP	
D663	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
EY301	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY302	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY401	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY402	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY403	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	

Loc. No.	Code No.	Description	Specification	Remarks
EY404	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY405	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY408	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY409	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY410	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY411	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY412	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY413	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY414	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY415	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY501	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY502	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY503	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY504	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY505	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY506	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY507	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY508	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY509	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY510	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY511	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY512	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	⚠
EY513	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY6	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY601	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	⚠
EY602	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY603	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY604	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY605	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	⚠
EY606	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY607	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY608	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY609	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY61	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY610	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY611	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY612	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY613	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY614	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY615	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY616	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
F633	3601-001092	FUSE-FERRULE	125V,2.5A,SB,EPOXY,7.1X3.1MM	
FG601	3601-000455	FUSE-FERRULE	250V,4A,TL,GLASS,5.2X20MM	
FH601	3602-000001	FUSE-CLIP	30mohm	
IC201	0903-001166	IC-MICROCONTROLLER	88P6232,8BIT,DIP,42P,600MIL,	
IC201_SOCK	3704-001071	SOCKET-IC	42P,DIP,SN,1.778mm	
IC202	1203-000495	IC-RESET	7045,T0-92,3P,PLASTIC,4.3/4.	

Loc. No.	Code No.	Description	Specification	Remarks
IC203	1103-001150	IC-EEPROM	24C081,8KBIT,DIP,8P,300MIL,10MS,5V	
IC204	1103-001087	IC-EEPROM	24LC21,128x8BIT,DIP,8P,300MIL,	
IC261	1204-001448	IC-DEF. PROCESSOR	SAM9222G,DIP,32P,300MIL,PLASTI	
IC402	1203-001099	IC-PWM CONTROLLER	3843,DIP,8P,250MIL,PLASTIC,30V	
IC403	BH13-00009A	IC-H/V CONVERGENCE	PG17/19,AN5452,SIP,12P,H/V CONVER	
IC501	1203-000610	IC-PWM CONTROLLER	494,DIP,16P,300MIL,PLASTIC,40V	
IC502	1201-000420	IC-OP AMP	358,DIP,8P,300MIL,DUAL,100V/mV	
IC602	0604-001018	PHOTO-COUPLER	DAR-TR,63-125%,200mW,DIP-4,ST	⚠
IC604	1203-000002	IC-POSI.ADJUST REG.	431,TO-92,3P,PLASTIC,2.44/2.	
IC661	0604-001018	PHOTO-COUPLER	DAR-TR,63-125%,200mW,DIP-4,ST	⚠
IC662	BH13-00010A	IC-POWER SWITCH	S-III,TNY254P,DIP,8P,POWER SWITCH,5W	
JP495	2004-001298	R-METAL	82Kohm,2%,1/4W,AA,TP,2.4x6.4mm	
L260	2701-000154	INDUCTOR-AXIAL	220uH,10%,4.2x9.8mm	
L401	2701-000187	INDUCTOR-AXIAL	4.7uH,10%,4.2x9.8mm	
L402	BH27-20345J	COIL-HORIZ.CENTER	3.5mH,OB6*30-1HHA,BULK,USTC0.08*8#	
L403	BH26-00048A	TRANS-H.LINEARITY	4.3UH,6P,DR 15*27.5(6.0),YL-81,4.3UH	⚠
L404	2701-000179	INDUCTOR-AXIAL	33uH,10%,4.2x9.8mm	
L501	2701-000179	INDUCTOR-AXIAL	33uH,10%,4.2x9.8mm	
L503	2701-000187	INDUCTOR-AXIAL	4.7uH,10%,4.2x9.8mm	
L521	BH27-00018A	COIL-CHOKE	6.8UH,DR08*11,BULK,+/-10%	
L601	BH27-00025A	COIL-LINE FILTER	24.0MH,SQE-2828,BK	
LC601	2901-001161	FILTER-EMI AC LINE	250V,3A,UL/CSA/SEMKO,2200PF,36X24X40	⚠
MP1.1	BH41-00027A	P.C.B-MAIN	PG,FR1,247*330,1.6T	
POS601	1404-000002	THERMISTOR-PTC	9ohm,20%,TR,RECT	⚠
Q261	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q262	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120	
Q263	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q264	0505-000013	FET-SILICON	VN2222LL,N,60V,150mA,7.5ohm,40	
Q290	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q301	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q401	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120	
Q404	0505-001357	FET-SILICON	SKS4N20,N,200V,3A,1.3OHM,27W,TO-220	
Q451	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q452	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q453	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q454	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q455	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q460	0505-001305	FET-SILICON	SKS10N20,N,200V,6.9A,0.36OHM,39W	
Q501	0501-000143	TR-SMALL SIGNAL	2N6520,PNP,625mW,TO-92,30-20	
Q521	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q522	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q523	0501-000581	TR-SMALL SIGNAL	2N3906,PNP,625mW,TO-92,TP,100	
Q553	0501-000140	TR-SMALL SIGNAL	2N5551,NPN,625mW,TO-92,80-25	
Q554	0501-000413	TR-SMALL SIGNAL	KSP44,NPN,625mW,TO-92,50-200	
Q630	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92,TP,120	
Q632	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120	
Q664	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120	

Loc. No.	Code No.	Description	Specification	Remarks
R201	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R202	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R203	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R204	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R205	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R206	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R207	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R208	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R209	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R211	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R212	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R214	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R215	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R216	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R217	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R219	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R220	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R221	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R222	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R223	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R224	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R225	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R226	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R227	2004-001285	R-METAL	820ohm,1%,1/4W,AA,TP,2.4x6.4mm	
R228	2004-000432	R-METAL	1Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R229	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R231	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R232	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R233	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R234	2004-000344	R-METAL	15Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R235	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R236	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R237	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R238	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R239	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R240	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R241	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R242	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R243	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R244	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R245	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R246	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R247	2001-000435	R-CARBON	1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R261	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R262	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description	Specification	Remarks
R263	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R264	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R265	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R266	2001-000744	R-CARBON	4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R267	2004-001118	R-METAL	5Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R268	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R269	2001-003190	R-CARBON	2.5MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R270	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R271	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R272	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R273	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R274	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R275	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R276	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R277	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R278	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R279	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R280	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R281	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R282	2001-000319	R-CARBON	120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R283	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R284	2004-004367	R-METAL	90Kohm,1%,1/4W,AA,TP,6.2x2.6mm	
R285	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R286	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R287	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R288	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R289	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R297	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R298	2003-000669	R-METAL OXIDE(S)	390ohm,5%,1W,AA,TP,3.3x9mm	
R301	2004-000344	R-METAL	15Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R302	2004-000679	R-METAL	2Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R303	2004-000523	R-METAL	200ohm,1%,1/4W,AA,TP,2.4x6.4mm	
R304	2004-000532	R-METAL	20Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R305	2004-001254	R-METAL	8.2Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R306	2005-001064	R-WIRE WOUND	0.9OHM,5%,2W,AA,TP,3.8X11MM	
R307	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R308	2001-000049	R-CARBON	2.4KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R309	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R310	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R311	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R312	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R313	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R314	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R315	2008-000114	R-FUSIBLE	1.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R316	2008-000114	R-FUSIBLE	1.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R401	2001-000017	R-CARBON	4.7OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R402	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description	Specification	Remarks
R403	2001-000011	R-CARBON	75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R404	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R405	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16mm	
R406	2001-000006	R-CARBON	2.4KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R407	2001-000958	R-CARBON	750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R408	2001-000011	R-CARBON	75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R409	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R410	2003-000557	R-METAL OXIDE(S)	2.2ohm,5%,3W,AA,TP,6x16mm	
R411	2003-000459	R-METAL OXIDE(S)	100ohm,5%,3W,AA,TP,6x16mm	
R412	2003-000459	R-METAL OXIDE(S)	100ohm,5%,3W,AA,TP,6x16mm	
R413	2001-000539	R-CARBON	24KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R414	2004-000284	R-METAL	12Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R415	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R416	2001-001163	R-CARBON(S)	560OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R417	2004-000216	R-METAL	10Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R418	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16mm	
R419	2001-000019	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R421	2006-001063	R-CEMENT	75OHM,5%,5W,CA,BK,9.5X22X9.5MM	
R422	2001-000028	R-CARBON(S)	100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R423	2001-000028	R-CARBON(S)	100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R424	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R429	2003-000423	R-METAL OXIDE(S)	1.2ohm,5%,3W,AA,TP,6x16mm	
R432	2004-004038	R-METAL	4.3Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R433	2004-000532	R-METAL	20Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R434	2001-001187	R-CARBON(S)	75OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R435	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R436	2008-000147	R-FUSIBLE	22ohm,5%,1/4W,AA,TP,2.6x6.7mm	
R437	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R438	2008-000140	R-FUSIBLE	2.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R451	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R452	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R453	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R454	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R455	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R456	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R457	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R458	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R459	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R460	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R461	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R462	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R463	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R464	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R465	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R466	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R467	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R468	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description	Specification	Remarks
R469	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R470	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R471	2003-000450	R-METAL OXIDE(S)	100Kohm,5%,3W,AA,TP,6x16mm	
R472	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R473	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R474	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R475	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R476	2001-000022	R-CARBON(S)	33OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R477	2001-000022	R-CARBON(S)	33OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R501	2001-000962	R-CARBON	75KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R502	2004-000327	R-METAL	150Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R503	2001-000096	R-CARBON(S)	1MOHM,5%,1/2W,AA,TP,2.4X6.4MM	⚠
R504	2001-000546	R-CARBON	270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R506	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R507	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R508	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R509	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R510	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R511	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R512	2004-000861	R-METAL	39Kohm,1%,1/4W,AA,TP,2.4x6.4mm	⚠
R513	2004-000515	R-METAL	200Kohm,1%,1/4W,AA,TP,2.4x6.4m	⚠
R521	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R523	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R524	2001-000689	R-CARBON	390KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R525	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R526	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R527	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R528	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R529	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R530	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R532	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R533	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R534	2001-000018	R-CARBON	6.8OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R535	2005-000210	R-WIRE WOUND	0.33ohm,5%,1W,AC,BK,4.5x11mm	
R536	2003-000014	R-METAL OXIDE(S)	10Kohm,5%,3W,AA,TP,6x16mm	
R537	2003-000014	R-METAL OXIDE(S)	10Kohm,5%,3W,AA,TP,6x16mm	
R538	2001-000073	R-CARBON	33KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R539	2006-001066	R-CEMENT	33OHM,5%,7W,CS,BK,9X10X54MM	
R540	2004-001349	R-METAL	91Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R543	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R549	2003-000462	R-METAL OXIDE(S)	10Kohm,5%,2W,AA,TP,4x12mm	
R551	2003-000006	R-METAL OXIDE	47ohm,5%,1W,AA,TP,4.3x12mm	
R552	2001-000066	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	

Loc. No.	Code No.	Description	Specification	Remarks
R553	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R554	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R555	2001-000319	R-CARBON	120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R556	2001-000045	R-CARBON	1.8KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R558	2003-000462	R-METAL OXIDE(S)	10Kohm,5%,2W,AA,TP,4x12mm	
R560	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R561	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R562	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R563	2001-001186	R-CARBON(S)	75KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R564	2001-000114	R-CARBON(S)	180KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R565	2001-000114	R-CARBON(S)	180KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R566	2001-001186	R-CARBON(S)	75KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R570	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI)	
R601	2001-000354	R-CARBON	150KOHM,5%,1/4W,AA,TP,2.4X6.4MM	⚠
R603	2001-000044	R-CARBON	1.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R604	2001-000087	R-CARBON(S)	120KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R605	2001-000085	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R607	2001-000376	R-CARBON	15OHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R608	2003-000756	R-METAL OXIDE(S)	6.8Kohm,5%,3W,AA,TP,6x16mm	
R609	2001-000552	R-CARBON	270OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R611	2001-000354	R-CARBON	150KOHM,5%,1/4W,AA,TP,2.4X6.4MM	⚠
R630	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R631	2001-000023	R-CARBON	47OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R632	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R633	2001-001106	R-CARBON(S)	220KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R634	2001-001131	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R635	2001-001106	R-CARBON(S)	220KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R636	2001-000226	R-CARBON	1.2OHM,5%,1/2W,AA,TP,3.3X9MM	
R637	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R638	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R639	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R640	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R641	2001-000034	R-CARBON	22OOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R642	2001-000508	R-CARBON	220KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R643	2003-000521	R-METAL OXIDE(S)	180Kohm,5%,1W,AA,TP,3.3x9mm	⚠
R644	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R645	2004-000679	R-METAL	2Kohm,1%,1/4W,AA,TP,2.4x6.4mm	⚠
R646	2004-000334	R-METAL	150ohm,1%,1/4W,AA,TP,2.4x6.4mm	⚠
R648	2001-001106	R-CARBON(S)	220KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R651	2001-001138	R-CARBON(S)	390OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R657	2001-000495	R-CARBON	20KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R661	2001-001050	R-CARBON(S)	1.5KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R663	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R664	2001-000495	R-CARBON	20KOHM,5%,1/4W,AA,TP,2.4X6.4MM	

Loc. No.	Code No.	Description	Specification	Remarks
R665	2004-000964	R-METAL	470Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R666	2004-000964	R-METAL	470Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R667	2004-001211	R-METAL	7.5Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R668	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R669	2001-000793	R-CARBON	47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RL601	3501-001111	RELAY-POWER	12Vdc,250mW,5A,1FormA,15mS,5mS	⚠
SK521	4715-000001	SURGE ABSORBER	1KV,+50-10%	
T401	BH26-00041A	TRANS-HOR.DRIVE	2.7MH,8P,EI-2519,PL3,EI-2519	⚠
T402	BH26-00040A	TRANS-HOR.PULSE	1.5MH,10P,EI-3026,PL3,50UH,EI-3026	⚠
T403	BH26-00002A	TRANS-H.GATE	520UH,5P,EI-1614,SB-5S,520UH/520UH	⚠
T501	BH26-00051A	TRANS-FBT	80.4UH,14P,HV22UR,HV22U,FEA875	⚠
T502	BH26-00056A	TRANS-FOCUS	3.8MH MIN,10P,SB-5S,EI-2218,SB-5S,3	
T601	BH26-00039A	TRANS-POWER	150UH,18P,EER4042,PL3,6.0UH,ER4042	⚠
T602	BH26-30302S	TRANS-SYNC.	3-1(250UH),SB-5S,UU1116,3	
T661	BH26-00042A	TRANS	2.5MH,8P,EI-1916,PL3,150UH	⚠
TCO	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
TH601	1404-001076	THERMISTOR-NTC	8ohm,15%,17mW/C,TP	⚠
VR401	2103-001049	VR-SEMI	100ohm,30%,1/5W,SIDE	
VR501	2103-001080	VR-SEMI	100KOHM,25%,0.3W,SIDE	
X201	2801-000006	CRYSTAL-UNIT	12MHz,50ppm,28-AAM,S,35ohm,BK	
ZD241	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD242	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD243	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD252	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD260	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
ZD501	0403-000355	DIODE-ZENER	UZ5.1BSB,5.1V,4.97-5.18V,500mW	
ZD601	0403-000753	DIODE-ZENER	MTZJ27D,27V,26.29-27.64V,500mW	
ZD602	0403-001068	DIODE-ZENER	UZ4.7BSA,4.7V,4.47-4.65V,500mW	
ZD661	0403-000367	DIODE-ZENER	UZ7.5BSC,7.5V,7.33-7.64V,500mW	

7-2 Video PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD101	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD105	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD106	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD151	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD155	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD181	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD182	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C101	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	
C102	2202-000319	C-CERAMIC,MLC-RADIAL	100nF,10%,100V,X7R,TP,5.1x3.2x	
C103	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C104	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	
C105	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C106	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C107	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C108	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	
C109	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C110	2401-003080	C-AL	3.3UF,20%,50V,BP,TP,5X11,2.5	
C111	2202-000319	C-CERAMIC,MLC-RADIAL	100nF,10%,100V,X7R,TP,5.1x3.2x	
C112	2401-003484	C-AL	10uF,20%,100V,LZ,TP,6.3X11,5	
C113	2401-000393	C-AL	10uF,20%,100V,WT,TP,8x11.5,5	
C114	2401-000393	C-AL	10uF,20%,100V,WT,TP,8x11.5,5	
C115	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
C116	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	
C117	2401-000010	C-AL	220uF,20%,16V,GP,-,6.3x11mm,2.	
C118	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C119	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,CH,TP,8x3,5	
C120	2201-000247	C-CERAMIC,DISC	15pF,5%,50V,CH,TP,5x3,5	
C124	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C126	2401-000613	C-AL	1uF,20%,50V,WT,TP,5x11,5	
C128	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C141	2201-000764	C-CERAMIC,DISC	82pF,5%,50V,NPO,TP,8x3.5,5	
C142	2202-000654	C-CERAMIC,MLC-RADIAL	100nF,10%,50V,X7R,TP,5.1x6.6,5	
C151	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C152	2202-000669	C-CERAMIC,MLC-RADIAL	10nF,10%,50V,X7R,TP,3.8x5.8,5.	
C154	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C155	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C156	2401-000010	C-AL	220uF,20%,16V,GP,-,6.3x11mm,2	
C157	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C158	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C161	2202-000669	C-CERAMIC,MLC-RADIAL	10nF,10%,50V,X7R,TP,3.8x5.8,5.	
C162	2202-000669	C-CERAMIC,MLC-RADIAL	10nF,10%,50V,X7R,TP,3.8x5.8,5.	
C163	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
C166	2301-000004	C-FILM,PEF	2.2nF,5%,100V,TP,5.5X10X2.9,5m	
C167	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	
C168	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	
C169	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	
C171	2201-000234	C-CERAMIC,DISC	150pF,5%,50V,CH,TP,9.5x3,5	

Loc. No.	Code No.	Description	Specification	Remarks
C172	2201-000234	C-CERAMIC,DISC	150pF,5%,50V,CH,TP,9.5x3,5	
C181	2201-000288	C-CERAMIC,DISC	1nF,10%,2KV,Y5P,TP,10x5mm,10mm	
C182	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C183	2201-000530	C-CERAMIC,DISC	4.7nF,10%,500V,YB,TP,12.5x4,5	
CB01	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CB02	2202-000319	C-CERAMIC,MLC-RADIAL	100nF,10%,100V,X7R,TP,5.1x3.2x	
CB11	2201-000222	C-CERAMIC,DISC	12pF,5%,50V,NPO,TP,4x3.5,5	
CB12	2201-000504	C-CERAMIC,DISC	39pF,5%,50V,SL,TP,5	
CB14	2305-000009	C-FILM,MPEF	100nF,5%,250V,TP,13x11x6.5,7.5	
CB16	2401-001318	C-AL	470nF,20%,100V,GP,TP,5x11,5	
CB17	2401-001334	C-AL	470nF,20%,50V,GP,TP,5x11,2.5	
CB21	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CBC	2201-002080	C-CERAMIC,DISC	0.027NF,5%,500V,NPO,TP,6.3X4MM,5	
CG01	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CG02	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
CG03	2202-000319	C-CERAMIC,MLC-RADIAL	100nF,10%,100V,X7R,TP,5.1x3.2x	
CG11	2201-000689	C-CERAMIC,DISC	8pF,0.5pF,50V,CH,TP,4x3.5,5	
CG12	2201-000504	C-CERAMIC,DISC	39pF,5%,50V,SL,TP,5	
CG14	2305-000009	C-FILM,MPEF	100nF,5%,250V,TP,13x11x6.5,7.5	
CG16	2401-001318	C-AL	470nF,20%,100V,GP,TP,5x11,5	
CG17	2401-001334	C-AL	470nF,20%,50V,GP,TP,5x11,2.5	
CG21	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
CGC	2201-002080	C-CERAMIC,DISC	0.027NF,5%,500V,NPO,TP,6.3X4MM,5	
CGP	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
CIS	BH39-00078A	CBF-HARNESS	150MM,BLK,UL1015,AWG18,35740-0110	
CIS	BH61-00002A	SPRING-VIDEO	CDB7907,STS H14 ,T1.0,NORMAL CDT	
CIS	BH62-00018A	HEAT SINK-VIDEO	A6063S,T2.0,PG17NO	
CIS	BH71-00022A	SHIELD-VIDEO	PG17HS,A1050S,T1.0	
CIS	BH72-00058A	HOLDER-VIDEO	PG17HS,ABS+PC,5V(NONE,1,PHOSPHATE)	
CIS	BH73-00001B	HOLDER-RUBBER	CDB7907,SILICON V2,GRAY,14,15L,17	
CIS	BH75-00085A	UNIT/SHIELD-COVER	PG17HS,SPTE T0.2,	
CIS	6103-001022	SUPPORTER	DASC-6N,L9.4,WHITE,NYLON6/6	
CIS	BH39-00008A	CBF-HARNESS	100MM,-,8*0.16TA*16,35798-9810/35750	
CIS	BH71-00021A	COVER-VIDEO	PG17HS,SPTE,T0.3	
CIS	BH71-10311A	EARTH-PLATE	PG17HS,SPTE,T0.4	
CIS	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	
CIS	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	
CIS	BH13-10335P	IC-HYBRID		
CIS	BH62-00012A	HEAT SINK-VIDEO	A1050S,T2.0,-,PEGSUS	
CN101	3711-004228	CONNECTOR-HEADER	BOX,6P,1R,2MM,ANGLE,SN	
CN102	3711-004123	CONNECTOR-HEADER	BOX,15P,1R,2mm,ANGLE,SN	
CN12	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN13	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CN14	BH71-40300A	PIN-HINGE	BRASS,D2.36,SN,HEAT/SINK	
CR01	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CR02	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	

Loc. No.	Code No.	Description	Specification	Remarks
CR11	2201-000689	C-CERAMIC,DISC	8pF,0.5pF,50V,CH,TP,4x3.5,5	
CR12	2201-000504	C-CERAMIC,DISC	39pF,5%,50V,SL,TP,-,5	
CR14	2305-000009	C-FILM,MPEF	100nF,5%,250V,TP,13x11x6.5,7.5	
CR16	2401-003479	C-AL	0.47UF,20%,100V,WT,TP,5X11MM,5	
CR17	2401-003479	C-AL	0.47UF,20%,100V,WT,TP,5X11MM,5	
CR21	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CRC	2201-002080	C-CERAMIC,DISC	0.027NF,5%,500V,NPO,TP,6.3X4MM,5	
CRP	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
D104	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
D151	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB03	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DB04	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DB05	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB07	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG03	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DG04	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DG05	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG07	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DR03	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DR04	0401-000006	DIODE-SWITCHING	BAV21,250V,250mA,DO-35,TP	
DR05	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DR07	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
EY1	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY2	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY5	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY6	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
EY7	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	
IC101	1201-001287	IC-VIDEO AMP	52748,DIP,36P,500MIL,TRIPLE,-,	
IC103	1204-001547	IC-OSD PROCESSOR	KS2501B-10,DIP,24P,300MIL,PLASTIC,6.5V	
L101	2701-000125	INDUCTOR-AXIAL	150uH,10%,2.8x7mm	
L102	2701-000125	INDUCTOR-AXIAL	150uH,10%,2.8x7mm	
LB03	2701-001069	INDUCTOR-AXIAL	180NH,10%,3X7MM	
LG03	2701-001069	INDUCTOR-AXIAL	180NH,10%,3X7MM	
LR03	2701-001065	INDUCTOR-AXIAL	0.22UH,10%,3X7MM	
MP1.1	BH41-00028A	PCB-VIDEO	FR1,247*330,1.6T	
Q101	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q102	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q104	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
Q141	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100	
QB02	0501-000140	TR-SMALL SIGNAL	2N5551,NPN,625mW,TO-92,80-25	
QB03	0501-000138	TR-SMALL SIGNAL	2N5401,PNP,625mW,TO-92,TP,60-2	
QB51	0501-000581	TR-SMALL SIGNAL	2N3906,PNP,625mW,TO-92,TP,100	
QG02	0501-000140	TR-SMALL SIGNAL	2N5551,NPN,625mW,TO-92,80-25	
QG03	0501-000138	TR-SMALL SIGNAL	2N5401,PNP,625mW,TO-92,TP,60-2	
QG51	0501-000581	TR-SMALL SIGNAL	2N3906,PNP,625mW,TO-92,TP,100	
QR02	0501-000140	TR-SMALL SIGNAL	2N5551,NPN,625mW,TO-92,80-25	
QR03	0501-000138	TR-SMALL SIGNAL	2N5401,PNP,625mW,TO-92,TP,60-2	

Loc. No.	Code No.	Description	Specification	Remarks
QR51	0501-000581	TR-SMALL SIGNAL	2N3906,PNP,625mW,TO-92,TP,100	
R101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R102	2001-001000	R-CARBON	82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R110	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R111	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R112	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R113	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R114	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R115	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R117	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R118	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R119	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R120	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R124	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R125	2001-000006	R-CARBON	2.4KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R126	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R127	2001-000356	R-CARBON	150KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R131	2004-000150	R-METAL	1.5Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R141	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R142	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R151	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R152	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R153	2001-000325	R-CARBON	120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R156	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R157	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R158	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R159	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R161	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R162	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R164	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R165	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R168	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R169	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R171	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R172	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R175	2002-001022	R-COMPOSITION	30MOHM,5%,1/4W,AA,TP,2.5X6.5MM	
R181	2001-001107	R-CARBON(S)	220ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R183	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB02	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB04	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB05	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB06	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB11	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB12	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RB14	2001-000482	R-CARBON	200KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RB15	2001-000047	R-CARBON	2.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM	

Loc. No.	Code No.	Description	Specification	Remarks
RB16	2001-000962	R-CARBON	75KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RB17	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RB21	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB26	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RB31	2001-000110	R-CARBON	10OHM,5%,1/4W,AA,TP,2.4X6.4MM	
RBR	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG02	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG04	2001-000356	R-CARBON	150KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG05	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG06	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG11	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG12	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RG14	2001-000482	R-CARBON	200KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RG15	2001-000047	R-CARBON	2.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RG16	2001-000962	R-CARBON	75KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RG17	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RG21	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG26	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RG31	2001-000333	R-CARBON	12OHM,5%,1/4W,AA,TP,2.4X6.4MM	
RGG	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RGP	2001-000723	R-CARBON	4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR02	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR04	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR05	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR06	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR11	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR12	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RR14	2001-000482	R-CARBON	200KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RR15	2001-000047	R-CARBON	2.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RR16	2001-000962	R-CARBON	75KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RR17	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RR21	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR26	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RR31	2001-000110	R-CARBON	10OHM,5%,1/4W,AA,TP,2.4X6.4MM	
RRP	2001-000723	R-CARBON	4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RRR	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SH/VID	6502-000137	CABLE CLAMP	DAWS-3NA,ID10,-,NTR,NYLON66	
SK101	4715-000102	SURGE ABSORBER	200V,20%,1000A,RADIAL	
SK102	4715-000102	SURGE ABSORBER	200V,20%,1000A,RADIAL	
SK103	4715-000102	SURGE ABSORBER	200V,20%,1000A,RADIAL	
SK104	4715-000106	SURGE ABSORBER	300V,210-390V,AXIAL	
SK105	3704-001116	SOCKET-CRT	11P,22.5PI,26.5PI,NI	
SK108	4715-000001	SURGE ABSORBER	1KV,+50-10%	
ZD101	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
ZD102	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	

7-3 SOG PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD150	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD151	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C151	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C152	2201-000573	C-CERAMIC,DISC	47pF,5%,50V,CH,TP,6.5x3.0,5	
C153	2201-000573	C-CERAMIC,DISC	47pF,5%,50V,CH,TP,6.5x3.0,5	
C154	2201-000573	C-CERAMIC,DISC	47pF,5%,50V,CH,TP,6.5x3.0,5	
C155	2201-000573	C-CERAMIC,DISC	47pF,5%,50V,CH,TP,6.5x3.0,5	
C161	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3.5	
C162	2401-001509	C-AL	47uF,20%,16V,GP,TP,6.3x7mm,2.5	
C166	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
C801	2401-001509	C-AL	47uF,20%,16V,GP,TP,6.3x7mm,2.5	
C802	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C803	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CB51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CB52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CG51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CG52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CG61	2401-000597	C-AL	1uF,20%,50V,GP,TP,4x7mm,1.5mm	
CIS	BH39-00094A	CBF-HARNESS	6P/7P,150MM,RED/GRN/BLU,UL1354	
CIS	BH70-00019A	SHIELD-BNC(COVER)	PG17HS,SECC,T0.5	
CIS	BH71-00020A	SHIELD-BNC(REAR)	PG17HS,SPTE,T0.2	
CIS	BH75-00061A	UNIT/SHIELD-VIDEO	PG17HS,A1050S	
CIS	0205-001027	OIL-SILICON	G746	
CIS	BH61-00002A	SPRING-VIDEO	CDB7907,STS H14 ,T1.0,NORMAL CDT	
CIS	BH62-00018A	HEAT SINK-VIDEO	A6063S,T2.0,-,PG17NO	
CIS	BH71-00022A	SHIELD-VIDEO	PG17HS,A1050S,T1.0	
CIS	BH72-00058A	HOLDER-VIDEO	PG17HS,ABS+PC,5V(NONE,1,PHOSPHATE)	
CIS	BH73-00001B	HOLDER-RUBBER	CDB7907,SILICON V2,GRAY,4,15L,17	
CIS	BH75-00069A	UNIT/BRKT	PG17HS,DB-1529B	
CIS	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	
CIS	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	
CIS	BH39-10307X	CBF-POWER/CORD	DET,H05VV-F,250V/6A,IVY,1830MM	
CN101	3711-004350	CONNECTOR-HEADER	BOX,7P,1R,2MM,ANGLE,SN	
CN102	3710-001523	CONNECTOR-SOCKET	16P,1R,2.54MM,ANGLE,AUF	
CR51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CR52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
D151	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB01	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB02	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB53	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DB54	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG51	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG52	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG53	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DG54	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DR51	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DR52	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	

Loc. No.	Code No.	Description	Specification	Remarks
DR53	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
DR54	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,DO-35,TP	
EY101	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY102	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY103	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY104	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
EY105	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	
IC1	1001-001101	IC-ANALOG SWITCH	KA2507,SDIP,24P,300MIL,SINGLE,7V,25T	
IC3	0801-000337	IC-CMOS LOGIC	74HCT14,SCHIMITT INVERTER,DIP	
MP1.0	BH41-00029A	P.C.B-SUB	PG17-19,FR1,247*247,1.6T	
R151	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R152	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R153	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R154	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R161	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R163	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R164	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R166	2001-000773	R-CARBON	470KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R801	2001-000019	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R802	2001-000019	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RB51	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB54	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB61	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG01	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG51	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG54	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG61	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR11	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR54	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR61	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SH/BNC	6502-000001	CABLE CLAMP	DAWH-5NB,D15,L35,NTR,NYLON66	
ZD151	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD152	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD153	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD154	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD155	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD156	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD161	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD162	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	

Others

Loc. No.	Code No.	Description	Specification	Remarks
⚠ CRT	BH03-00029A	CRT-COLOR	0.26,M46LPA507XX608(F3G1	
PROCESS-PBA UNIT	BH94-30018F	ASS'Y,PCB	CSF9839T/EDC	
B/D ASS'Y CODE	BH98-10017J	ASS'Y,PCB-MAIN	CSF9839T/EDC	
	BH98-20006T	ASS'Y,PCB-VIDEO	CSF9839T/EDC	
	BH98-60002N	ASS'Y,PCB-SOCKET	CSF9839T/EDC	
P/CORD	BH39-10007A	CBF-POWER/CORD	DET,250V/6A,H05W-F,LP-34A/KKP	
SIGNAL	BH39-00001A	CBF-SIGNAL	1830MM,15P/15P,IVORY,2990,D-SUB/MALE	

17",19"FST,S/L BNC Yes,No(main) Different Parts List				
LOCATION	PG****(WITH BNC)		PG****(WITHOUT BNC)	
	code	spec	code	spec
BNC ASSY'		BH98-00076C		NONE
(Auto Selection)				
ZD245	-	NONE	0403-000361	DIODE-ZENER,6.2V
ZD246	-	NONE	0403-000361	DIODE-ZENER,6.2V
ZD247	-	NONE	0403-000361	DIODE-ZENER,6.2V
ZD248	-	NONE	0403-000361	DIODE-ZENER,6.2V
ZD249	-	NONE	0403-000361	DIODE-ZENER,6.2V
ZD250	-	NONE	0403-000361	DIODE-ZENER,6.2V
(Manual Selection)				
CIS		NONE	BH39-00070A	SIGNAL CABLE
CN203	3711-004351	CONNECTOR,16P,2.5MM ,ST	-	NONE
CN208	-	NONE	3711-003843	CONNECTOR;BOX,8P,ST

PEGASUS-FST BNC Yes,No(Video17") Different Parts List				
LOCATION	PG17**(WITH BNC)		PG17**(WITHOUT BNC)	
	code	spec	code	spec
(Auto Selection)				
DB01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DB02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DG01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DG02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DR01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DR02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
JP232	BH39-40305U	JUMPER	-	NONE
JP233	-	NONE	BH39-40305U	JUMPER
R118	-	NONE	2001-000429	R-CF,1K,1/8W
RB01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
RG01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
RR01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
(Manual Selection)				
CN142			BH98-00079A	ASSY,PCB/MISC-SN
CIS	BH39-00058A	6P-7P 150mm HARNESS		NONE

PEGASUS-PJT BNC Yes,No(Video 19") Different Parts List				
LOCATION	PG19**(WITH BNC)		PG19**(WITHOUT BNC)	
	code	spec	code	spec
(Auto Selection)		WITH BNC		WITHOUT BNC
C170	-	NONE	2202-002009	C-CERAMIC,100NF,50V"
CG04	-	NONE	2401-000597	C-AL,1UF,50V
DB01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DB02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DG01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DG02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DR01	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
DR02	-	NONE	0401-000005	DIODE-SWITCHING;1N4148
JP161	-	NONE	BH39-40305U	J/WIRE
Q103	-	NONE	0501-000122	TR,2N3904
R116	-	NONE	2001-000429	R-CF,1/8T,1K-J
R121	-	NONE	2001-000734	R-CF,4.7K,1/8W
R122	-	NONE	2001-000429	R-CF,1K,1/8W
R170	-	NONE	2001-000429	R-CF,1K,1/8W
RG03	-	NONE	2001-000995	R-CF,820ohm,1/8W
RB01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
RG01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
RR01	-	NONE	2001-000969	R-CARBON;75OHM,1/8W
(Manual Selction)				
CIS	BH39-00094A	6P-7P 150MM HARNESS(EMI)		NONE

PEGASUS-PJT BOM (SOG PCB) Auto Selection & Manual Selection Parts List		
LOCATION	PG19**(WITH BNC)	
	code	spec
(ASS'Y CODE)	BH98-00079A	ASSY,PCB/MISC-SN
(Auto Selection)		
CIS		BH41-00036A PCB-SOG
HC01	2202-002008	C-MLC-AXIAL, 10nF,50V
HC02	2202-000841	C-CERAMIC,MLC, 33nF,100V
HC03	2202-002009	C-MLC-AXIAL, 100nF,50V
HD01	0401-000005	DIODE-SIG,1N4148
HIC01	1202-000119	C-LIN,LM319,COMPARATOR
HR01	2001-000734	R-AXIAL, REF-CF,4.7K,5%,1/6W
HR02	2001-000591	R-AXIAL, REF-CF,3.3K,5%,1/6W
HR03	2001-000325	R-AXIAL, REF-CF,120,5%,1/6W
HR04	2001-000449	R-AXIAL, REF-CF,2.2K,5%,1/6W
HR05	2001-000515	R-AXIAL, REF-CF,220,5%,1/6W
HR06	2001-000786	R-AXIAL, REF-CF,47K,5%,1/6W
HR07	2001-000786	R-AXIAL, REF-CF,47K,5%,1/6W
JP1	BH39-40305U	JUMPER
(Manual Selection)		
HCN01	3711-002702	CONNECTOR,4PIN

PJT 17" BASIC/OEM(main) Different Parts List				
LOCATION	PG17*S		PG17*0	
	code	spec	code	spec
(Auto Selection)				
JP214	BH39-40305U	CBF-HARNESS	-	NONE
JP267	-	NONE	BH39-40305U	CBF-HARNESS
Q663	-	NONE	0501-000586	TR-SMALLSIGNAL;KSC945
R290		NONE	2001-000221	R-CF,1.2KOHM,1/8W
R291	-	NONE	2001-000007	R-CF,3KOHM,1/8W
R292	-	NONE	2001-000812	R-CF,5.6KOHM,1/8W
R293	-	NONE	2001-000221	R-CF,1.2KOHM,1/8W
R294	-	NONE	2001-000007	R-CF,3KOHM,1/8W
R295	-	NONE	2001-000812	R-CF,5.6KOHM,1/8W
R296	-	NONE	2001-000331	R-CF,12KOHM,1/8W
R299	-	NONE	2001-001107	R-CF(S),220ohm,1/2W
R662	-	NONE	2001-000273	R-CARBON;100KOHM,1/8W
SW1	-	NONE	3404-000244	SWITCH-TACT
SW2	-	NONE	3404-000244	SWITCH-TACT
SW3	-	NONE	3404-000244	SWITCH-TACT
SW4	-	NONE	3404-000244	SWITCH-TACT
SW5	-	NONE	3404-000244	SWITCH-TACT
CN201	3711-004182	CONNECTOR;BOX,10P	-	NONE
OP1	-	NONE	0601-000334	LED,CBI-ANGLE, GRN/YEL
SW6	-	NONE	3403-001075	SWITCH-PUSH,12V,0.1A
SW7	-	NONE	3404-001079	2´Ü TACT S/W,4P

PJT 17" CDT(main) Different Parts List				
LOCATION	PG17** TBS:BH03-10339L		PG19** SDD:BH03-10339A	
	code	spec	code	spec
(Auto Selection))				
C422	2301-000005	C-FILM,PEF;33nF,5%,100V	2301-000016	C-FILM,PEF;22nF,5%,100V
R302	2004-000481	R-METAL, 2.4Kohm,1%,1/4W	2004-001661	R-ETAL,3Kohm,1%,1/4W
R303	2004-002234	R-MF;560 OHM,1/4W	2004-000268	R-MF;120 OHM,1/4W
R304	2004-000412	R-METAL;18Kohm,1%,1/4W	2004-000344	R-METAL;15Kohm,1%,1/4W
R305	2004-001211	R-METAL;7.5Kohm,1%,1/4W	2004-001136	R-METAL;6.8Kohm,1%,1/4W
R501	2001-000962	R-CARBON;75KOHM,5%,1/4W	2004-001349	R-MF;91kOHM,5%,1/4W
R636	2001-000226	R-CARBON;1.2ohm,1/2W	2001-000263	R-CARBON;1.8ohm,1/2W
R308	2001-000049	R-CF,2.4KOHM,5%,1/4W		NONE
C309	2202-002009	C-CER,MLC-AXIAL,100nF,50V		NONE
TCO TAPE		NONE	BH39-40364Y	TCO TAPE

PJT 19" (FST) BASIC/OEM(main) Different Parts List				
LOCATION	PG19*S(FST)		PG19*O(FST)	
	code	spec	code	spec
(Auto Selection))				
JP214	BH39-40305U	CBF-HARNESS	-	NONE
JP267	-	NONE	BH39-40305U	CBF-HARNESS
Q663	-	NONE	0501-000586	TR-SMALLSIGNAL;KSC945
R662	-	NONE	2001-000273	R-CARBON;100KOHM,1/8W
(Manual Selection))				
CN604	-	NONE	3711-000999	CONNECTOR;5P,SMW250-05

PJT 19" (FST) CDT (main) Different Parts List				
LOCATION	PG19**	TSB:BH03-00029A	PG19**	SDD:BH03-00030A
	code	spec	code	spec
(Auto Selection)				
C411	2301-001304	C-FILM,PPF;1.5nF,2.5KV	2303-001022	C-FILM,PPF;2nF,2.5KV
C412	2301-001169	C-FILM,PPF;1.8nF,2.5KV	2303-001022	C-FILM,PPF;2nF,2.5KV
C413	-	NONE	2201-000469	C-CERAMIC,330PF,500V
C422	2301-000174	C-FILM,PEF;15nF,5%,100V	2301-000148	C-FILM,PEF;10nF,5%,100V
C451	2301-001249	C-FILM,MPPF;68nF,5%,400V	2306-000127	C-FILM,MPPF;120nF,5%,400V
C457	2301-001249	C-FILM,MPPF;68nF,5%,400V	2301-001273	C-FILM,MPEF;56nF,400V
R303	2004-000523	R-MF;200 OHM,1/4W	2004-000853	R-MF;390 OHM,1/4W
R304	2004-000532	R-METAL;20Kohm,1%,1/4W	2004-000412	R-METAL;18Kohm,1%,1/4W
R404	2001-000522	R-CARBON;22KOHM,5%,1/8W	2001-000411	R-CARBON;18KOHM,5%,1/8W
R420	-	NONE	2003-000606	R-ETALOXIDE(S);270ohm,2W
R501	2001-000962	R-CARBON;75KOHM,5%,1/4W	2001-000084	R-CARBON;100KOHM,5%,1/4W
R636	2001-000226	R-CARBON;1.2ohm,1/2W	2001-000263	R-CARBON;1.8ohm,1/2W
(Manual Selection))				
L403	BH26-00048A	TRANS-H.LINEARITY	BH26-00054A	TRANS-H.LINEARITY
R405	2003-000473	R-METALOXIDE(S);10ohm,3W	2003-000763	R-METALOXIDE(S);6.8ohm,3W
R411	2003-000459	R-METALOXIDE(S);100ohm,3W	2003-000747	R-METALOXIDE(S);56ohm,3W
R412	2003-000459	R-METALOXIDE(S);100ohm,3W	2003-000747	R-METALOXIDE(S);56ohm,3W
R421	2006-001063	R-CEMENT;75OHM,5%,5W	2003-000653	R-METALOXIDE(S);330ohm,3W
CIS		NONE	BH39-40364Y	PULSE TAPE

WARNING: 19 FST VIDEO 1P ASSY
1(PG19H*:BH39-00078A--150MM)
2(PG19L*:BH39-00090A--100MM)

PJT 19" S/L(main) Different Parts List				
LOCATION	PG19**	MEC:BH03-00001A	PG19**	SDD:BH03-00047A
	code	spec	code	spec
(Auto Selection)				
C451	2301-001273	C-FILM,MPEF;56nF,400V	2301-001249	C-FILM,MPPF;68nF,5%,400V
C457	2306-000224	C-FILM,MPEF;47nF,400V	2301-001249	C-FILM,MPPF;68nF,5%,400V
R303	2004-000940	R-MF;430 OHM,1/4W	2004-000790	R-MF;330 OHM,1/4W
R304	2004-000344	R-METAL;15Kohm,1%,1/4W	2004-004068	R-MF;19KOHM,1/4W
R305	2004-001254	R-METAL;8.2Kohm,1%,1/4W	2004-000216	R-MF;10KOHM,1/4W
R561	2001-000890	R-CF,6.8K,1/8W	2001-000812	R-CF,5.6K,1/8W
R562	2001-000241	R-CF,1.5K,1/8W	2001-000221	R-CF,1.2K,1/8W
(Maunal Selection)				
R410	2006-001069	R-CEMENT,2.2ohm,5W	2006-001070	R-CEMENT,1.8ohm,5W
R411	2006-001071	R-METALOXIDE(S);56ohm,5W	2006-000195	R-METALOXIDE(S);51ohm,5W
R412	2006-001071	R-METALOXIDE(S);56ohm,5W	2006-000195	R-METALOXIDE(S);51ohm,5W

PEGASUS - PROJECT MODEL CDT CODE NO

MODEL	PG17HS	PG17HO
CDT MAKER	TSB	SDD
CDT CODE	BH03-10339L	BH03-10339A

MODEL	PG19HS	PG19HO	PG19LS	PG19LO
CDT MAKER	TSB	TSB	TSB	SDD
CDT CODE	BH03-00029A	BH03-00029A	BH03-00030A	BH03-00030A

MODEL	PG19SS	PG19SO	PG19RS	PG19RO
CDT MAKER	MEC	SDD	SDD	SDD
CDT CODE	BH03-00001A	BH03-00047A	BH03-00047A	BH03-00047A

PJT BOM(main) Different Parts List

LOCATION	PG17**(FST)	TDB:BH03-10339L	PG19*S(FST)	TSB:BH03-00029A
	code	spec	code	spec
(Auto Selection)				
C272	2201-000532	C-CERAMIC,4.7NF,50V	2201-000017	C-CERAMIC,1NF,50V
C306	2401-000852	C-AL,220UF,35V,85¡É	2401-000852	C-AL,220UF,35V,85¡É
C311	2401-000039	C-AL,1000UF,16V,85¡É	2401-000039	C-AL,1000UF,16V,85¡É
C402	2401-000046	C-AL,10UF,250V,85¡É	2401-000046	C-AL,10UF,250V,85¡É
C411	2303-001022	C-FILM,PPF;2nF,2.5KV	2301-001304	C-FILM,PPF;1.5nF,2.5KV
C412	2303-001022	C-FILM,PPF;2nF,2.5KV	2301-001169	C-FILM,PPF;1.8nF,2.5KV
C413	2201-000469	C-CERAMIC,330PF,500V	-	NONE
C417	2201-000012	C-CERAMIC,220PF,1KV	-	NONE
C418	2301-000519	C-FILM,3.3NF,100V	2301-000102	C-FILM,1.2NF,100V
C422	2301-000005	C-FILM,PEF;33nF,5%,100V	2301-000174	C-FILM,PEF;15nF,5%,100V
C451	2306-000127	C-FILM,MPPF;120nF,5%,400V	2301-001249	C-FILM,MPPF;68nF,5%,400V
C452	2306-000127	C-FILM,MPPF;120nF,400V	2301-001259	C-FILM,MPPF;100nF,400V
C457	2306-001011	C-FILM,MPEF;56nF,250V	2301-001249	C-FILM,MPPF;68nF,5%,400V
C527	2401-000971	C-AL,22UF,50V	2401-001195	33uF,20%,50V
C530	2201-000469	C-CERAMIC,330PF,500V	2201-000469	C-CERAMIC,330PF,500V
C551	2401-000043	C-AL,1UF,160V,85¡É	2401-000043	C-AL,1UF,160V,85¡É
CIS	BH41-00027A	PCB-MAIN,330*247mm	BH41-00027A	PCB-MAIN,330*247mm
CN416	-	NONE	-	NONE
CN417	-	NONE	-	NONE
JP214	BH39-40305U	CBF-HARNESS	BH39-40305U	CBF-HARNESS
JP267	-	NONE	-	NONE BH39-40305U
JP444	BH39-40305U	JUMPER	BH39-40305U	JUMPER
L405	-	NONE	-	NONE
Q663	-	NONE	-	NONE
R290		NONE	-	NONE
R291	-	NONE	-	NONE
R292	-	NONE	-	NONE

LOCATION	PG17**(FST)	TDB:BH03-10339L	PG19*S(FST)	TSB:BH03-00029A
	code	spec	code	spec
R293	-	NONE	-	NONE
R294	-	NONE	-	NONE
R295	-	NONE	-	NONE
R296	-	NONE	-	NONE
R299	-	NONE	-	NONE
R301	2004-000532	R-METAL;20Kohm,1%,1/4W	2004-000344	R-METAL;15Kohm,1%,1/4W
R302	2004-000481	R-METAL, 2.4Kohm,1%,1/4W	2004-000679	R-METAL, 2Kohm,1%,1/4W
R303	2004-002234	R-MF;560 OHM,1/4W	2004-000523	R-MF;200 OHM,1/4W
R304	2004-000412	R-METAL;18Kohm,1%,1/4W	2004-000532	R-METAL;20Kohm,1%,1/4W
R305	2004-001211	R-METAL;7.5Kohm,1%,1/4W	2004-001254	R-METAL;8.2Kohm,1%,1/4W
R404	2001-000563	R-CARBON;27KOHM,5%,1/8W	2001-000522	R-CARBON;22KOHM,5%,1/8W
R410	2003-000557	R-METAL OXIDE(S), 2.2ohm,3W	2003-000557	R-METAL OXIDE(S),2.2ohm,3W
R415	2001-000281	R-CF,100ohm,1/8W	2001-000515	R-CF,220ohm,1/8W
R420	2003-000578	RES-MO,220ohm,5%,2W(S)	-	NONE
R476	2001-000022	R-CF,33ohm,1/2W	2001-000022	R-CF,33ohm,1/2W
R501	2001-000962	R-CARBON;75KOHM,5%,1/4W	2001-000962	R-CARBON;75KOHM,5%,1/4W
R526	2001-000008	15KOHM,5%,1/8W	2001-000812	5.6KOHM,5%,1/8W
R561	2001-000890	R-CF,6.8K,1/8W	2001-000890	R-CF,6.8K,1/8W
R562	2001-000241	R-CF,1.5K,1/8W	2001-000241	R-CF,1.5K,1/8W
R633	2001-001106	R-CF(S),220K,1/2W	2001-001106	R-CF(S),220K,1/2W
R635	2001-001106	R-CF(S),220K,1/2W	2001-001106	R-CF(S),220K,1/2W
R636	2001-000226	R-CARBON;1.2ohm,1/2W	2001-000226	R-CARBON;1.2ohm,1/2W
R648	2001-001106	R-CF(S),220K,1/2W	2001-001106	R-CF(S),220K,1/2W
R662	-	NONE	-	NONE 2001-000273
SW1	-	NONE	-	NONE
SW2	-	NONE	-	NONE
SW3	-	NONE	-	NONE
SW4	-	NONE	-	NONE
SW5	-	NONE	-	NONE
(Manual Selection)				
CIS	-	NONE	BH39-00078A	150MM,WIRE ASS'Y
CN201	3711-004182	CONNECTOR;BOX,10P	3711-004182	CONNECTOR-HEADER;BOX,10P
CN409	3711-000197	CONNECTOR-MOLEX;BOX,3P	3711-000885	CONNECTOR-JST;BOX,3P
HS402	BH99-10057C	H/S ASS'Y, 2SC5583/D10U150S	BH99-10057C	H/S ASS'Y 2SC5583/D10U150S
HS409	BH99-10059M	H/S ASS'Y, SKS10N20*4	BH99-10059M	H/S ASS'Y, SKS10N20*4
HS508	BH99-10019F	H/S ASS'Y,TIP29C	BH99-10019F	H/S ASS'Y,TIP29C
HS60	BH99-10019N	H/S ASS'Y,31DF6	BH99-10019N	H/S ASS'Y,31DF6
HS602	-	NONE	-	NONE
L403	BH26-00001A	TRANS-H.LINEARITY	BH26-00048A	TRANS-H.LINEARITY
L521	BH27-00018A	COIL-CHOKE,6.8UH	BH27-00018A	COIL-CHOKE,6.8UH
L601	BH27-00025A	LINE FILTER	BH27-00025A	LINE FILTER
OP1	-	NONE	-	NONE
R405	2003-000763	R-METALOXIDE(S);6.8ohm,3W	2003-000473	R-METALOXIDE(S);10ohm,3W
R411	2003-000747	R-METALOXIDE(S);56ohm,3W	2003-000459	R-METALOXIDE(S);100ohm,3W
R412	2003-000747	R-METALOXIDE(S);56ohm,3W	2003-000459	R-METALOXIDE(S);100ohm,3W

LOCATION	PG17**(FST)	TDB:BH03-10339L	PG19*S(FST)	TSB:BH03-00029A
	code	spec	code	spec
R421	2003-000653	R-METALOXIDE(S);330ohm,3W	2006-001063	R-CEMENT;75OHM,5%,5W
SW6	-	NONE	-	NONE
SW7	-	NONE	-	NONE
T601	BH26-00039A	TRANS-POWER, 150UH,18P	BH26-00039A	TRANS-POWER, 150UH,18P
C604	2301-001285	C-FILM,MPPF:680nF,275V,BK	2301-001285	C-FILM,MPPF:680nF,275V,BK
C609	2401-003483	400V,270uF	2401-003483	400V,270uF

LOCATION	PG19**(S/L)	MEC:BH03-00001A	NO	LOCATION	PG19**(S/L)	MEC:BH03-00001A
	code	spec			code	spec
(Auto Selection)			39	R410	2006-001069	R-CEMENT,2.2ohm,5W(πö»»)
			40	R415	2001-000515	R-CF,220ohm,1/8W
C272	2201-000017	"C-CERAMIC,1NF,50V"	41	R420	2003-000650	RES-MO,330,5%,2W
C306	2401-000856	"C-AL,220UF,35V,105¡É"	42	R476	2003-000661	R-MO(S),33ohm,2W
C311	2401-000142	"C-AL,1000UF,16V,105¡É"	43	R501	2001-000115	R-CARBON;82KOHM,5%,1/4W
C402	2401-001872	"C-AL,10UF,250V,105¡É"	44	R526	2001-000812	5.6KOHM,5%,1/8W
C411	2303-001022	"C-FILM,PPF;2nF,2.5KV"	46	R561	2001-000890	R-CF,6.8K,1/8W
C412	2303-001022	"C-FILM,PPF;2nF,2.5KV"	47	R562	2001-000241	R-CF,1.5K,1/8W
C413	2201-000019	" C-CERAMIC,10nF,500V"	48	R633	2001-001106	R-CF(S),220K,1/2W
C417	-	NONE	49	R635	2001-001113	R-CF(S),270K,1/2W
C418	2301-000102	"C-FILM,1.2NF,100V"	50	R636	2003-000446	MOR,2W,1.8ohm
C422	2301-000148	"C-FILM,PEF;10nF,5%,100V"	51	R648	2001-001113	R-CF(S),270K,1/2W
C451	2301-001273	"C-FILM,MPEF;56nF,400V"	52	R662	2001-000273	R-CARBON;100KOHM,1/8W
C452	2301-001259	"C-FILM,MPPF;100nF,400V"	53	SW1	3404-000244	SWITCH-TACT
C457	2306-000224	"C-FILM,MPEF;47nF,400V"	54	SW2	3404-000244	SWITCH-TACT
C527	2401-001195	"33uF,20%,50V"	55	SW3	3404-000244	SWITCH-TACT
C530	2201-000012	"C-CERAMIC,220PF,1KV"	56	SW4	3404-000244	SWITCH-TACT
C551	2401-000055	"C-AL,1UF,160V,105¡É"	57	SW5	3404-000244	SWITCH-TACT
CIS	BH41-00037A	"PCB-MAIN,320*247mm"				
CN416	BH71-40300A	PIN-HINGE		(Manual Selection)		
CN417	BH71-40300A	PIN-HINGE	2	CIS		NONE
JP214	-	NONE	3	CN201	-	NONE
JP267	BH39-40305U	CBF-HARNESS	6	CN409	3711-000434	CONNECTOR-JST;2P
JP444	-	NONE	8	HS402	BH99-10057A	H/S ASS'Y, 2SC5584/D10U150S
L405	2701-000179	"INDUCTOR,33UH"	9	HS409	BH99-10059L	H/S ASS'Y,10N20*2/19N20*2
Q663	0501-000586	TR-SMALLSIGNAL;KSC945	10	HS508	BH99-10021K	H/S ASS'Y,TIP29C(H/S ‹Àº°Í)
R290	2001-000221	"R-CF,1.2KOHM,1/8W"	11	HS60	BH99-00005E	H/S ASS'Y,31DF6(H/S ‹Àº °Í)
R291	2001-000007	"R-CF,3KOHM,1/8W"	12	HS602	BH99-10047C	DIODE,BRIDGE,D3SB60
R292	2001-000812	"R-CF,5.6KOHM,1/8W"	13	L403	BH26-30338W	TRANS-H.LINEARITY
R293	2001-000221	"R-CF,1.2KOHM,1/8W"	14	L521	BH27-00027A	COIL-CHOCK, 6.5uH
R294	2001-000007	"R-CF,3KOHM,1/8W"	15	L601	BH27-00026A	LINE FILTER
R295	2001-000812	"R-CF,5.6KOHM,1/8W"	16	OP1	0601-000463	LED;ROUND,G/O
R296	2001-000331	"R-CF,12KOHM,1/8W"	17	R405	2003-000763	R-METALOXIDE(S);6.8ohm,3W
R299	2001-001107	"R-CF(S),220ohm,1/2W"	18	R411	2006-001071	R-METALOXIDE(S);56ohm,5W
R301	2004-000616	"R-METAL;24Kohm,1%,1/4W"	19	R412	2006-001071	R-METALOXIDE(S);56ohm,5W
R302	2004-000728	"R-METAL, 3.9Kohm,1%,1/4W"	20	R421	2003-000695	R-METALOXIDE(S);430ohm,3W
R303	2004-000940	"R-MF;430 OHM,1/4W"	21	SW6	3403-001075	SWITCH-PUSH
R304	2004-000344	"R-METAL;15Kohm,1%,1/4W"	22	SW7	3404-001079	SWITCH-TACT

LOCATION	PG19**(S/L)	MEC:BH03-00001A	LOCATION	PG19**(S/L)	MEC:BH03-00001A
	code	spec		code	spec
R305	2004-001254	"R-METAL;8.2Kohm,1%,1/4W"	T601	BH26-00050A	TRANS-POWER,130UH,EER4445
R404	2001-000679	R-CARBON;36KOHM,5%,1/8W	C604	2305-001049	C-FILM,MPPF:1uF,275V,BK
R410	2003-000557	R-METAL OXIDE(S), 2.2 ohm	C609	2401-001137	400V,330uF
R415	2001-000281	R-CF, 100ohm, 1/8W			

21" Different Parts List

LOCATION	PG21**(FST)		
	code	spec	
(Auto Selection)			
JP214	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI)
JP267	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI)

LOCATION	PG21**	HTC:BH03-00055A	
	code	spec	
(Auto Selection)			
C411	2301-001240	C-FILM,PPF	2.5nF,5%,3KV,BK,29x23x13,20
C412	2301-001240	C-FILM,PPF	2.5nF,5%,3KV,BK,29x23x13,20
C413	»èÁœ		
C422	2301-000174	C-FILM,PEF	15nF,5%,100V,TP,7.2x4.0x7.5mm,
C451	2306-000127	C-FILM,MPPF	120nF,5%,400V,TP,21.5x17mm,5mm
C457	2306-000119	C-FILM,MPPF	100nF,5%,250V,TP,19x14.5x6.5,7
R303	2004-000334	R-METAL	150ohm,1%,1/4W,AA,TP,2.4x6.4mm
R304	2004-000412	R-METAL	18Kohm,1%,1/4W,AA,TP,2.4x6.4mm
R404	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM
R420	»èÁœ		
R501	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM
R636	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.4MM
(Manual Selection)			
L403	BH26-00062A	TRANS-H.LINEARITY	49MH/3.5UH,5PIN,DR1420*2,YL-81(C:6.0),49.0MH/3.5UH,-,-
R405	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16mm
R411	2003-002142	R-METAL OXIDE(S)	62OHM,5%,3W,AA,TP,5.5X16MM
R412	2003-002142	R-METAL OXIDE(S)	62OHM,5%,3W,AA,TP,5.5X16MM
R421	2006-001063	R-CEMENT	75OHM,5%,5W,CA,BK,9.5X22X9.5MM
CIS			

MAIN PCB

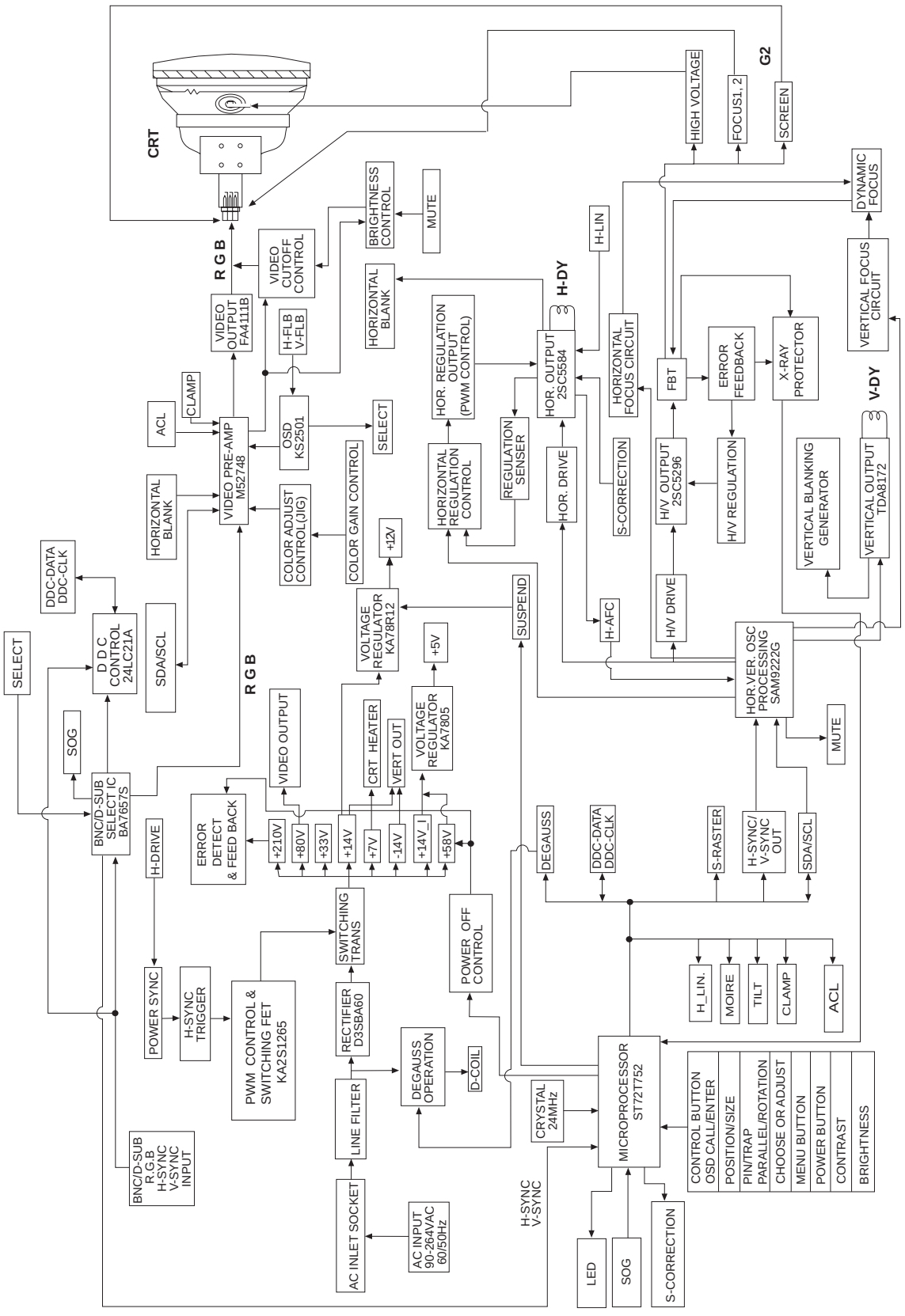
R416	2001-000118	R-CARBON(S)
C419	2201-000229	C-CERAMIC,DISC
C454	2306-000263	C-FILM,MPPF
C455	2306-000147	C-FILM,MPPF
C456	2306-000169	C-FILM,MPPF
C457	2306-000119	C-FILM,MPPF
R309	2001-000016	R-CARBON(S)
R314	2001-000734	R-CARBON
R543	2001-000947	R-CARBON
R523	2001-000812	R-CARBON
L521	BH27-00027A	COIL-CHOKE-1
L601	BH27-00026A	COIL-LINE FILTER
T601	BH26-00050A	TRANS-POWER
L403	BH26-00062A	TRANS-H.LINEARITY
C604	2305-001049	C-FILM,MPEF
C204	2201-000247	C-CERAMIC,DISC
R266	2001-003213	R-CARBON
R277	2001-000864	R-CARBON
R245	2001-000924	R-CARBON
R636	2001-000016	R-CARBON(S)
POS601	1404-001154	THERMISTOR-PTC
VIDEO PCB		
C119	2201-000144	C-CERAMIC,DISC
R153	2001-000281	R-CARBON

PG17IS (FST TSB CDT Different Parts List)				
	PG17HS (TSB)		PG17IS (SDD)	
LO_NO	code_no	spec	code_no	spec
R302	2004-000481	R-METAL, 2.4Kohm,1%,1/4W	2004-001661	R-METAL, 3Kohm,1%,1/4W
R303	2004-002234	R-MF;560 OHM,1/4W	2004-000268	R-MF;120 OHM,1/4W
R304	2004-000412	R-METAL;18Kohm,1%,1/4W	2004-000344	R-METAL;15Kohm,1%,1/4W
R305	2004-001211	R-METAL;7.5Kohm,1%,1/4W	2004-001136	R-METAL;6.8Kohm,1%,1/4W
R636	2001-000226	R-CARBON;1.2ohm,1/2W	2001-000263	R-CARBON;1.8ohm,1/2W
C272	2201-000532	C-CE,4.7NF,50V	2301-000148	C-PEF,10NF, 100V
C451		-	2301-001259	C-MPPF,100NF, 400V
C452		-	2301-001259	C-MPPF,100NF, 400V
C453		-	2306-000137	C-MPPF,180NF, 250V
C456		-	2306-000119	C-MPPF,100NF, 250V
C457		-	2301-001249	C-MPPF,68NF, 400V

PG19IS (FST TSB CDT Different Parts List)				
	PG19HS (TSB)		PG19IS (SDD)	
LO_NO	code_no	spec	code_no	spec
C411	2301-001304	C-FILM, PPF;1.5nF, 2.5KV	2303-001022	C-FILM.PPF;2nF,2.5KV
C412	2301-001169	C-FILM, PPF;1.8nF, 2.5KV	2303-001022	C-FILM,PPF;2nF, 2.5KV
C413	-	NONE	2201-000469	C-CERAMIC,330PF,500V
C422	2301-000174	C-FILM,PEF;15nF,5%,100V	2301-000148	C-FILM,PEF;10nF,5%,100V
R304	2004-000532	R-METAL;20Kohm,1%,1/4W	2004-000412	R-METAL;18Kohm,1%,1/4W
R404	2001-000522	R-CARBON;22KOHM,5%,1/8W	2001-000411	R-CARBON;18KOHM,5%,1/8W
R501	2001-000962	R-CARBON;75KOHM,5%,1/4W	2001-000084	R-CARBON;100KOHM,5%,1/4W
R636	2001-000226	R-CARBON;1.2ohm,1/2W	2001-000263	R-CARBON;1.8ohm,1/2W
R302	2004-000679	R-MF, 2KOHM	2004-000716	R-MF, 3.6KOHM
R303	2004-000853	R-MF, 390 OHM	2004-000268	R-MF, 120 OHM
C451		-	2301-001259	C-MPPF, 100NF, 400V
C452		-	2306-000127	C-MPPF, 120NF, 400V
C453		-	2306-000164	C-MPPF, 220NF, 250V
C456		-	2306-000119	C-MPPF, 100NF, 250V
C457			2306-001011	C-MPPF, 56NF, 250V

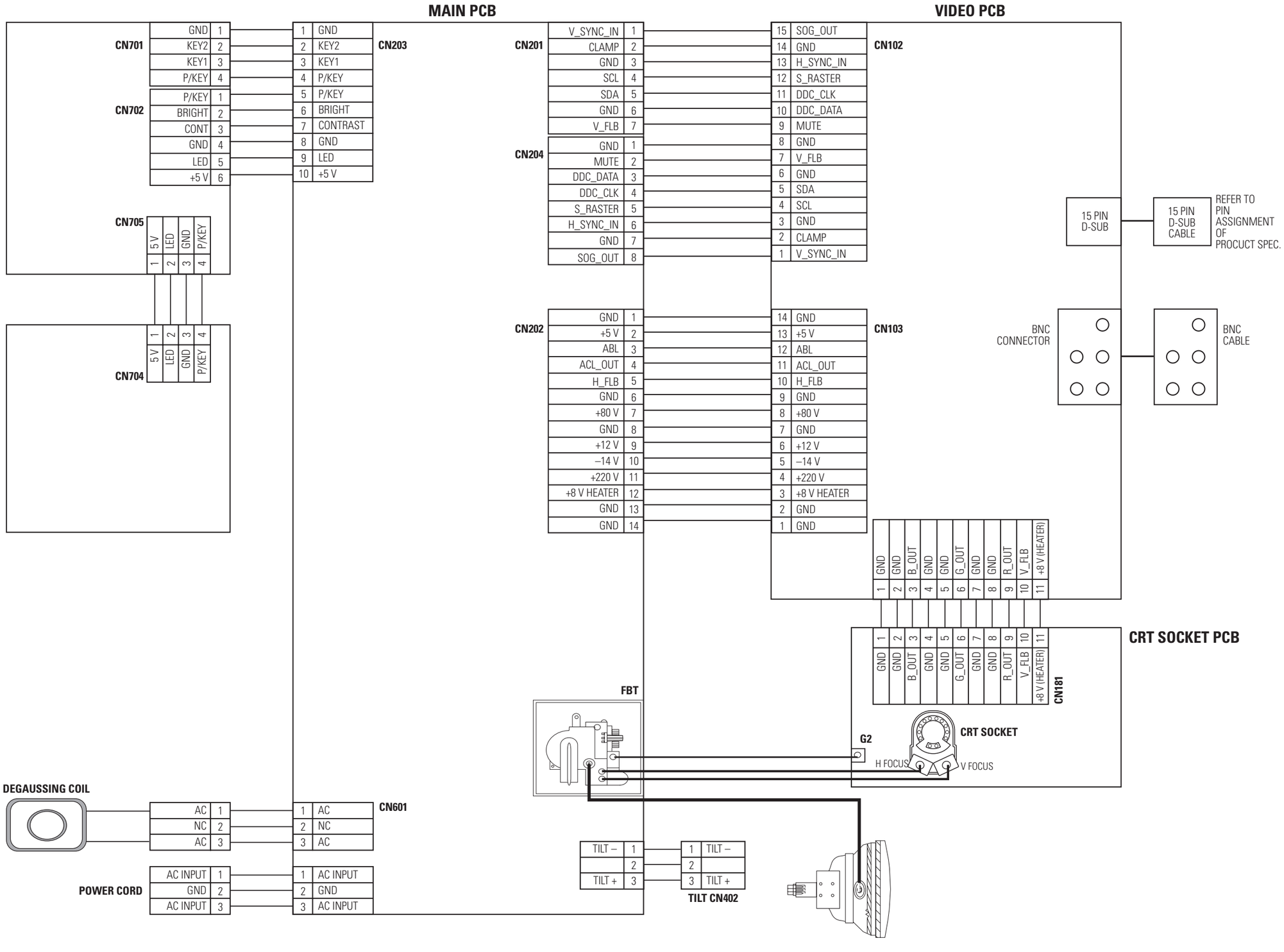
L403	BH26-00054A	LINEARITY COIL	BH26-00062A	LINEARITY COIL
L402	BH27-20345J	CENTERING COIL	BH27-00032A	CENTERING COIL

8 Block Diagram



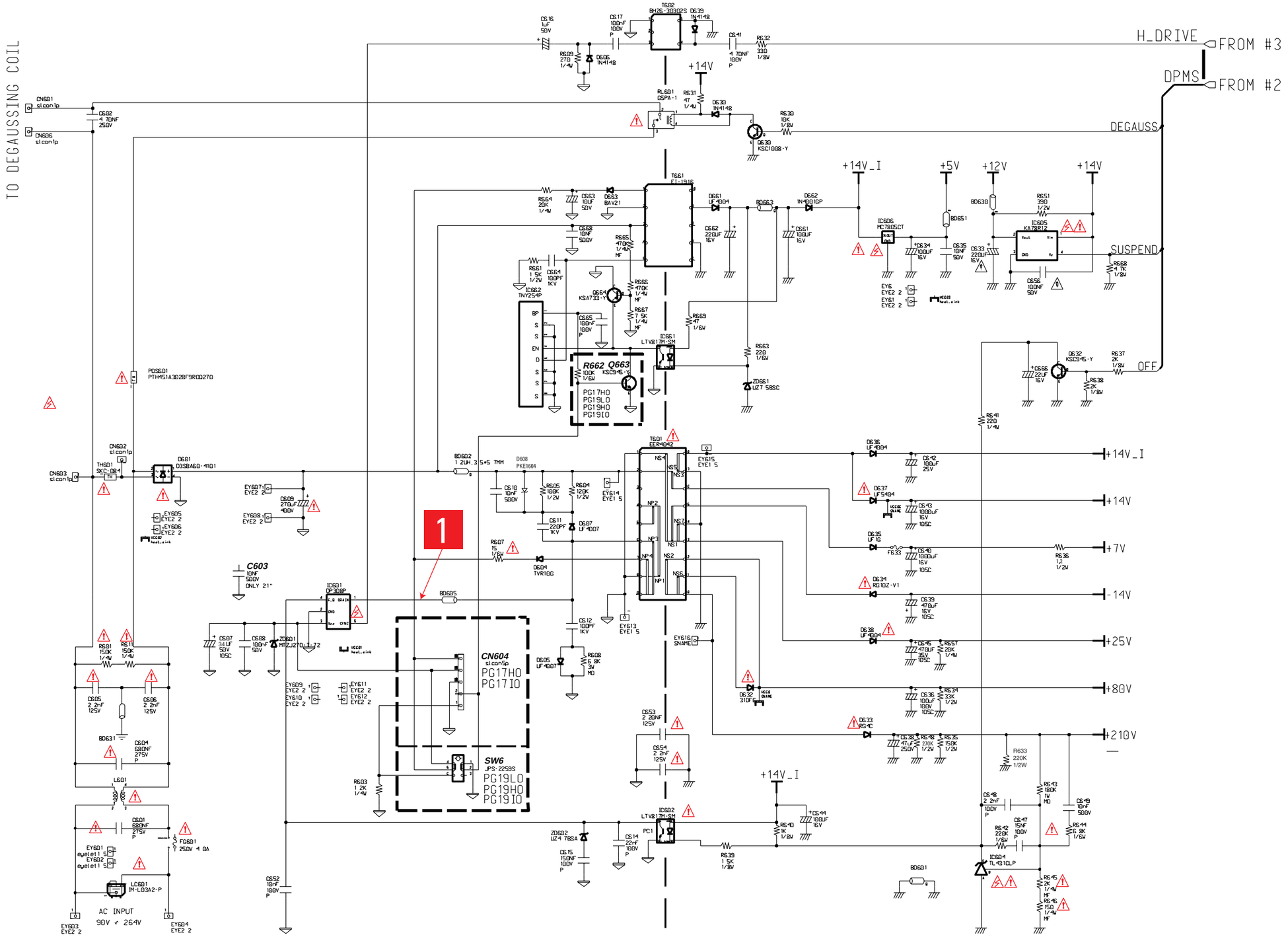
Memo

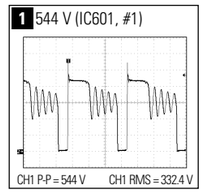
9 Wiring Diagram



10 Schematic Diagrams

10-1 Power Part Schematic Diagram





CSE980B, CSE988B

	S5	S4	S3	S2	S1
~33K	H	H	H	H	H
33~35K	L	H	H	L	L
35~37K	L	H	H	L	L
37~40K	L	L	H	H	H
40~46K	H	H	L	L	L
46~50K	L	H	L	H	L
50~55K	H	L	L	H	H
55~59K	H	L	L	H	L
59~65K	H	L	L	L	H
65~68K	L	L	L	H	L
68~70K	L	L	L	H	H
70~76K	L	L	L	H	H
76~78K	L	L	L	L	H
78~81K	L	L	L	H	L
81~85K	L	L	L	L	H
85~96K	L	L	L	L	L

CSE780B, CSE788B

	S5	S4	S3	S2	S1
~33K	H	H	H	L	H
33~35K	L	H	H	L	H
35~37K	L	H	H	L	H
37~40K	L	L	H	H	H
40~46K	H	H	L	L	L
46~50K	H	L	L	H	H
50~52K	H	L	L	H	H
52~55K	H	L	L	H	H
55~59K	H	L	L	H	L
59~65K	H	L	L	L	H
65~68K	L	L	L	H	L
68~70K	L	L	L	H	H
70~76K	L	L	L	H	H
76~78K	L	L	L	L	H
78~81K	L	L	L	L	H
81~85K	L	L	L	L	H
85~96K	L	L	L	L	L

CSE9839, CSE9829

	S5	S4	S3	S2	S1
~33K	H	H	H	H	H
33~35K	L	H	H	L	H
35~37K	L	H	H	L	H
37~40K	L	L	H	H	H
40~46K	H	H	L	L	L
46~50K	H	L	L	H	H
50~55K	H	L	L	H	H
55~59K	H	L	L	H	L
59~65K	H	L	L	L	H
65~68K	L	L	L	H	L
68~70K	L	L	L	H	H
70~76K	L	L	L	H	H
76~78K	L	L	L	L	H
78~81K	L	L	L	H	L
81~85K	L	L	L	L	H
85~96K	L	L	L	L	L

CSE7839, CSE7829

	S5	S4	S3	S2	S1
~33K	H	H	H	H	H
33~35K	L	H	H	L	H
35~37K	L	H	H	L	H
37~40K	L	L	H	H	H
40~46K	H	H	L	L	L
46~50K	L	H	L	H	L
50~55K	H	L	L	H	H
55~59K	H	L	L	H	L
59~65K	H	L	L	L	H
65~68K	L	L	L	H	L
68~70K	L	L	L	H	H
70~76K	L	L	L	H	H
76~78K	L	L	L	L	H
78~81K	L	L	L	L	H
81~85K	L	L	L	L	H
85~96K	L	L	L	L	L

10-2 Micom Part Schematic Diagram

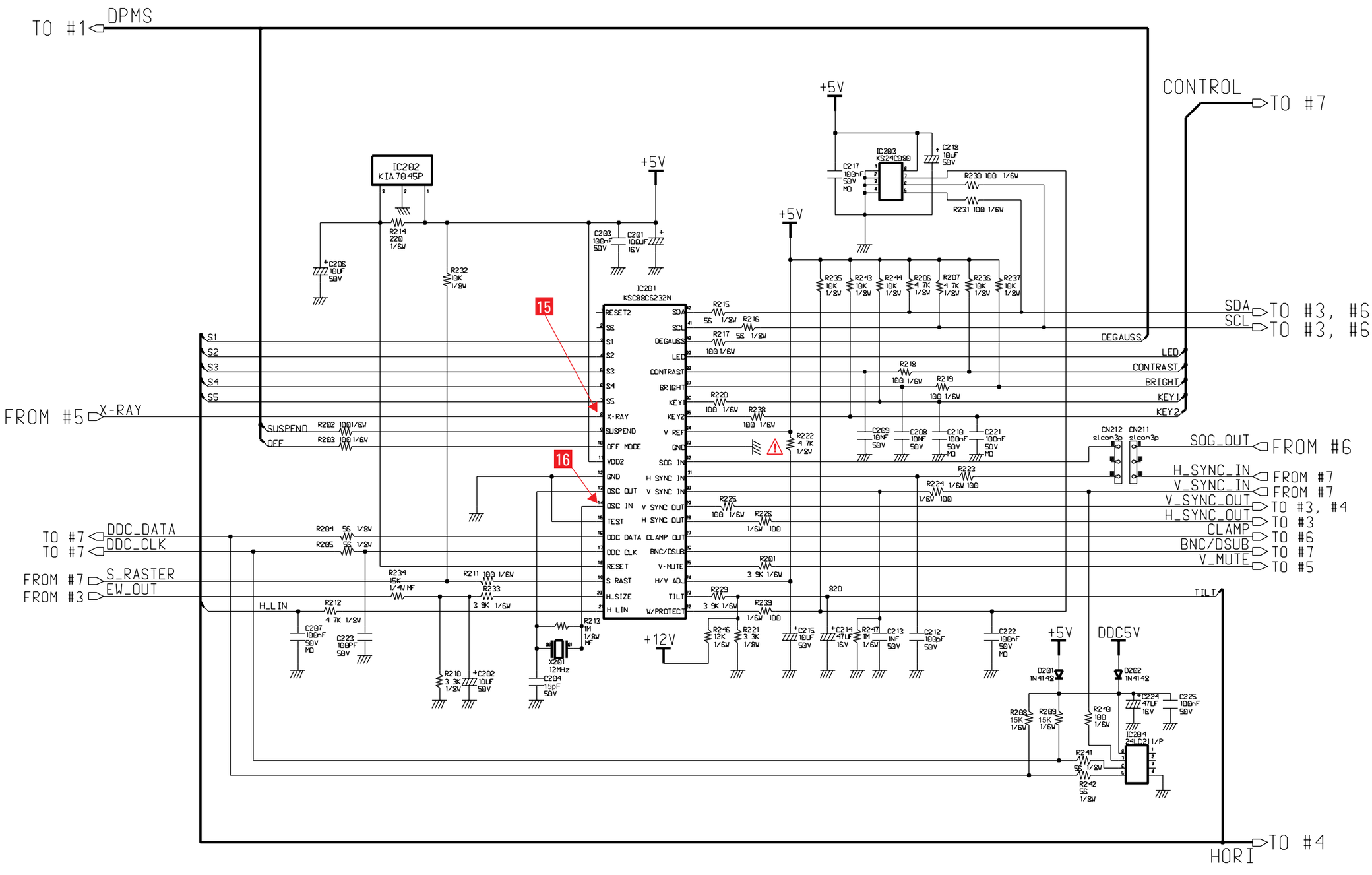


Table 10-1. IC201 (ST72E75)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	5.05	5.05	5.05	22	5	5.03	5.03
2	0	0	0	23	GND	GND	GND
3	2.18	2.18	2.18	24	4.06	2.75	3.77
4	3.84	4.12	4.23	25	5	5	5
5	NC	NC	NC	26	0	0	0
6	2.32	2.32	2.31	27	5	5	5
7	0	0	0	28	5	5	5
8	NC	NC	NC	29	5	5	5
9	GND	GND	GND	30	5	5	5
10	5.05	5.05	5.04	31	0	0	0
11	5	5	5	32	2.34	2.33	2.28
12	5	5	5	33	2.22	2.22	2.24
13	5	5	5	34	0	0	0
14	5	5	5	35	12	0	0
15	5	0	5	36	12	0	0
16	5	5	5	37	12	12	0
17	NC	NC	NC	38	12	12	0
18	4.73	4.62	4.63	39	12	0	0
19	NC	NC	NC	40	5	5	5
20	0	0	0	41	GND	GND	GND
21	0.6	0.36	0.46	42	2.05	2.62	2.62

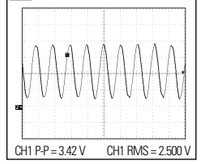
Unit: Vrms

Table 10-2. IC251 (SAM9222G)

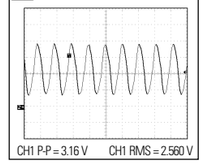
pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	0.61	0.36	0.46	17	GND	GND	GND
2	0	0	0	18	5.56	5.54	5.54
3	0.17	0.16	0.17	19	GND	GND	GND
4	4.83	4.82	4.82	20	5.46	5.24	5.24
5	3.28	2.69	2.31	21	8.15	8.16	8.16
6	6.41	6.41	6.4	22	3.56	3.56	3.56
7	4.01	4.0	3.99	23	3.56	3.56	3.56
8	1.55	3.39	4.5	24	3.16	3.05	3.05
9	1.55	3.39	4.5	25	2.02	2.01	2.01
10	3.37	3.3	3.29	26	5.06	5.11	5.38
11	GND	GND	GND	27	GND	GND	GND
12	0	0	0	28	3.63	2.49	3.69
13	8.05	8.04	8.04	29	12.02	12.02	12.02
14	8.09	8.03	8.0	30	5.03	5.03	5.03
15	2.74	2.83	2.78	31	5.03	5.03	5.03
16	3.27	3.26	3.24	32	5.04	5.03	5.03

Unit: Vrms

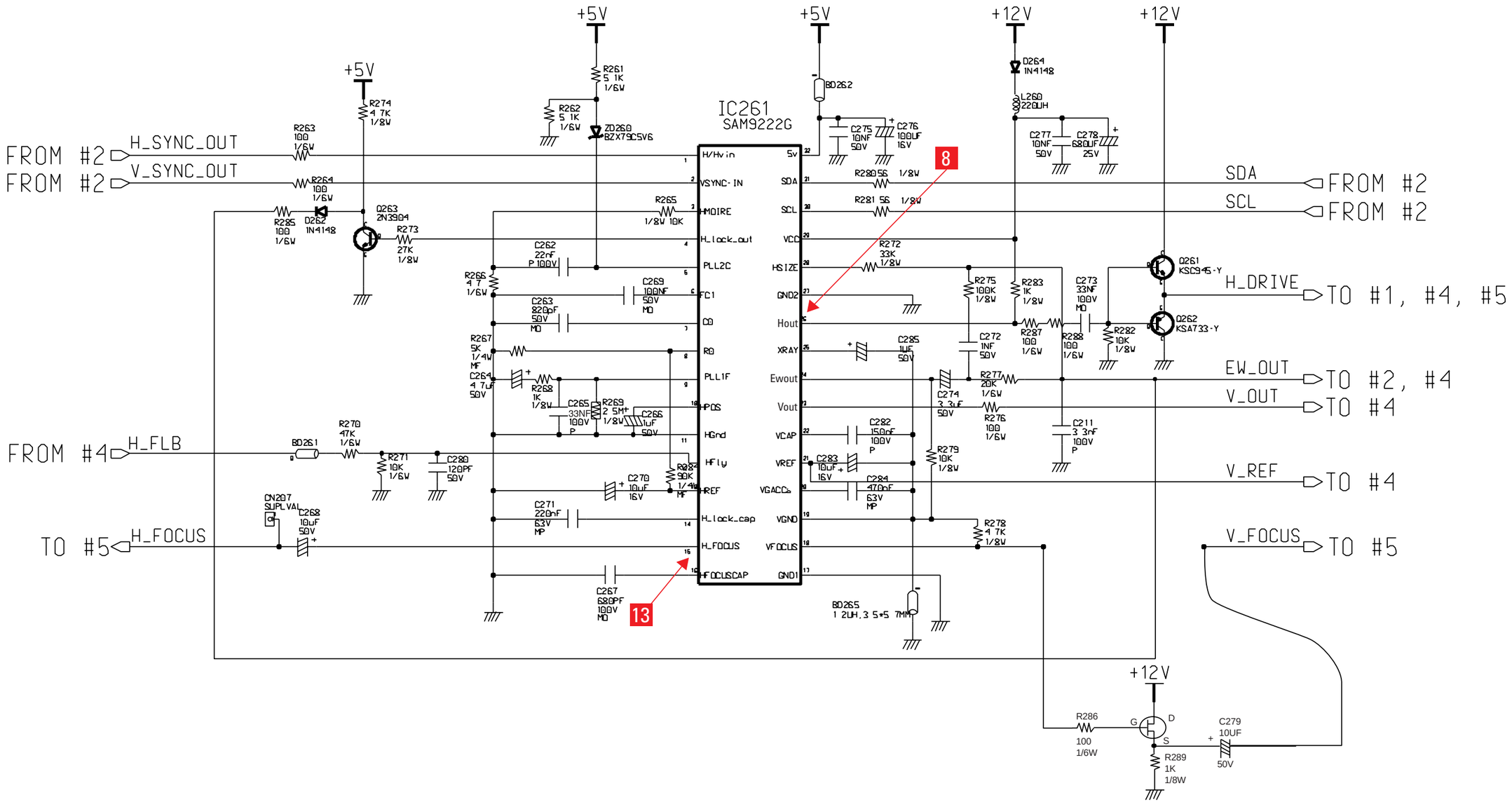
15 3.42 V (IC201, #33)



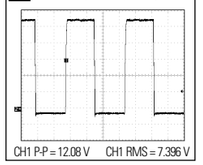
16 3.16 V (IC201, #32)



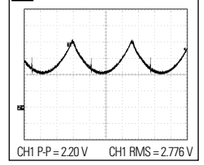
10-3 H/V Process Part Schematic Diagram



8 12.08 V (IC261, #26)



13 2.20 V (IC251, #15)



10-4 HORI & VERTICAL Part Schematic Diagram

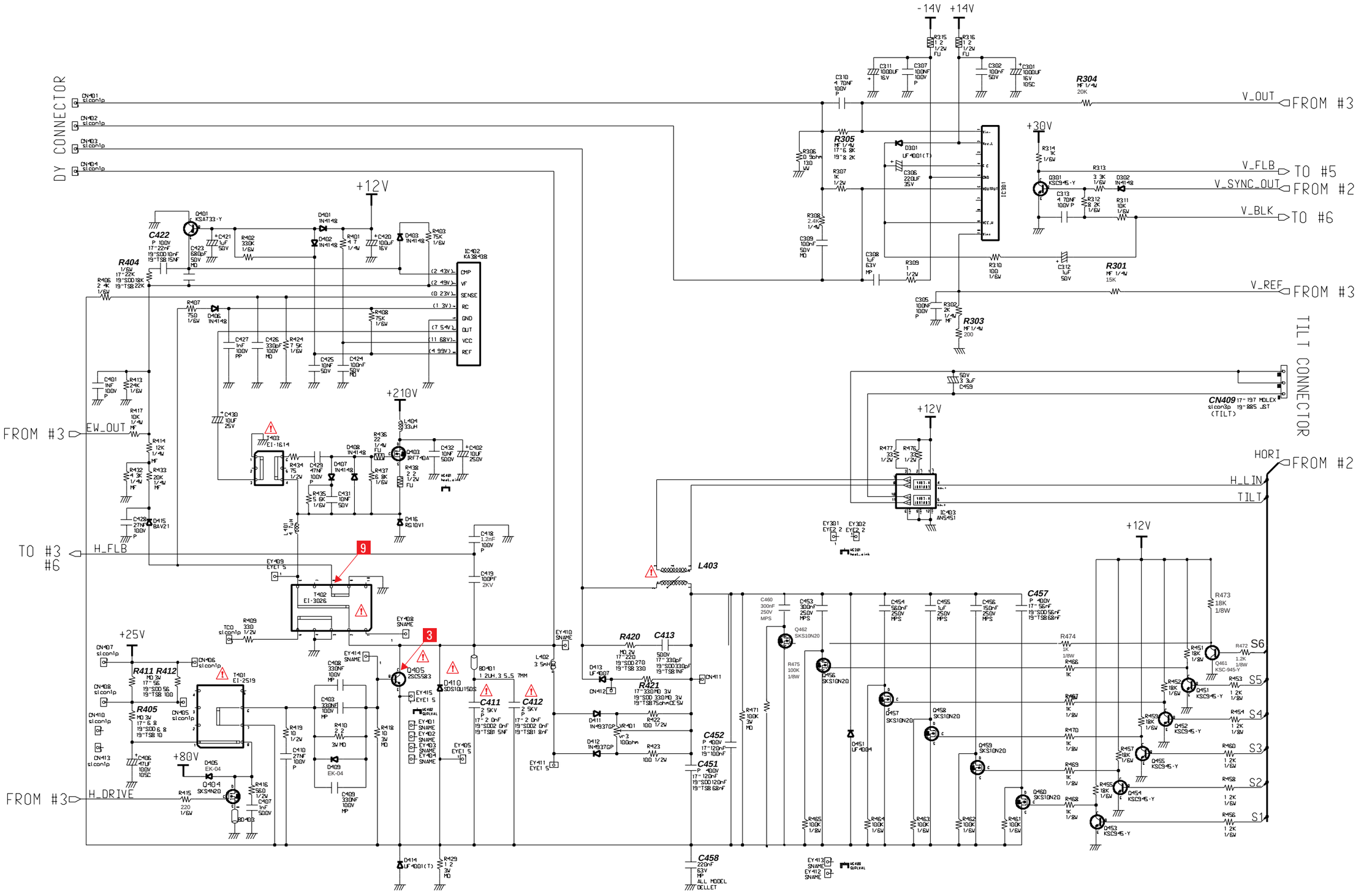


Table 10-3. IC301 (TDA8172)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	1.09	1.09	1.08
2	12.43	12.28	12.21
3	9.65	9.65	9.41
4	–13.6	–13.65	–13.65
5	0	0	0
6	11.56	11.65	11.58
7	1.09	1.09	1.09

Unit: Vrms

Table 10-4. IC401 (KA3843)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	3.3	2.58	2.3
2	2.5	2.5	2.5
3	0.71	0.41	0
4	1.25	1.41	1.22
5	GND	GND	GND
6	2.12	4.28	5.05
7	11.86	11.86	11.86
8	4.98	4.98	4.98

Unit: Vrms

Table 10-5. IC403 (LM324M)

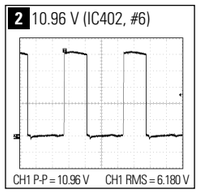
pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	–13.81	–13.65	–13.64
2	5.04	5.04	5.04
3	4.52	4.44	4.41
4	12.02	12.02	12.02
5	3.26	3.26	3.26
6	3.26	3.26	3.26
7	0.97	–1.85	–2.5
8	1.06	1.07	1.07
9	2.02	2.02	2.02
10	2.02	2.02	2.02
11	–13.81	–13.65	–13.64
12	NC	NC	NC
13	NC	NC	NC
14	NC	NC	NC

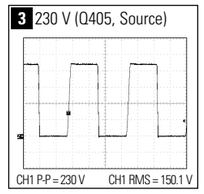
Unit: Vrms

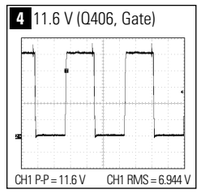
Table 10-6. IC501 (TL494CN)

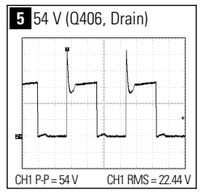
pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	4.86	4.86	4.86
2	4.86	4.86	4.86
3	1.49	1.32	1.29
4	0	0	0
5	0.66	0.61	0.6
6	3.42	3.43	3.42
7	GND	GND	GND
8	11.97	11.96	11.95
9	2.4	3.42	3.67
10	2.4	3.42	3.67
11	11.98	11.96	11.95
12	11.98	11.96	11.95
13	GND	GND	GND
14	4.86	4.86	4.86
15	11.98	11.96	11.95
16	4.86	4.86	4.86

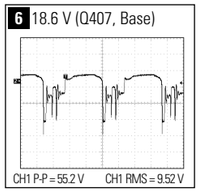
Unit: Vrms

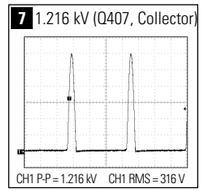


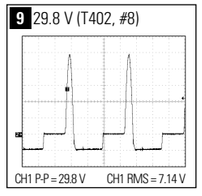


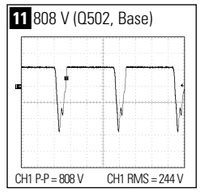


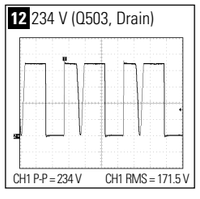


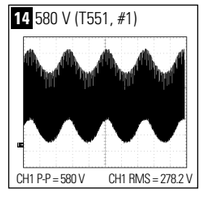


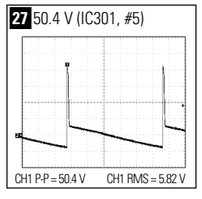


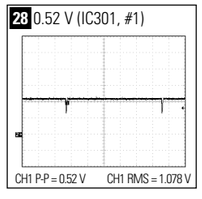




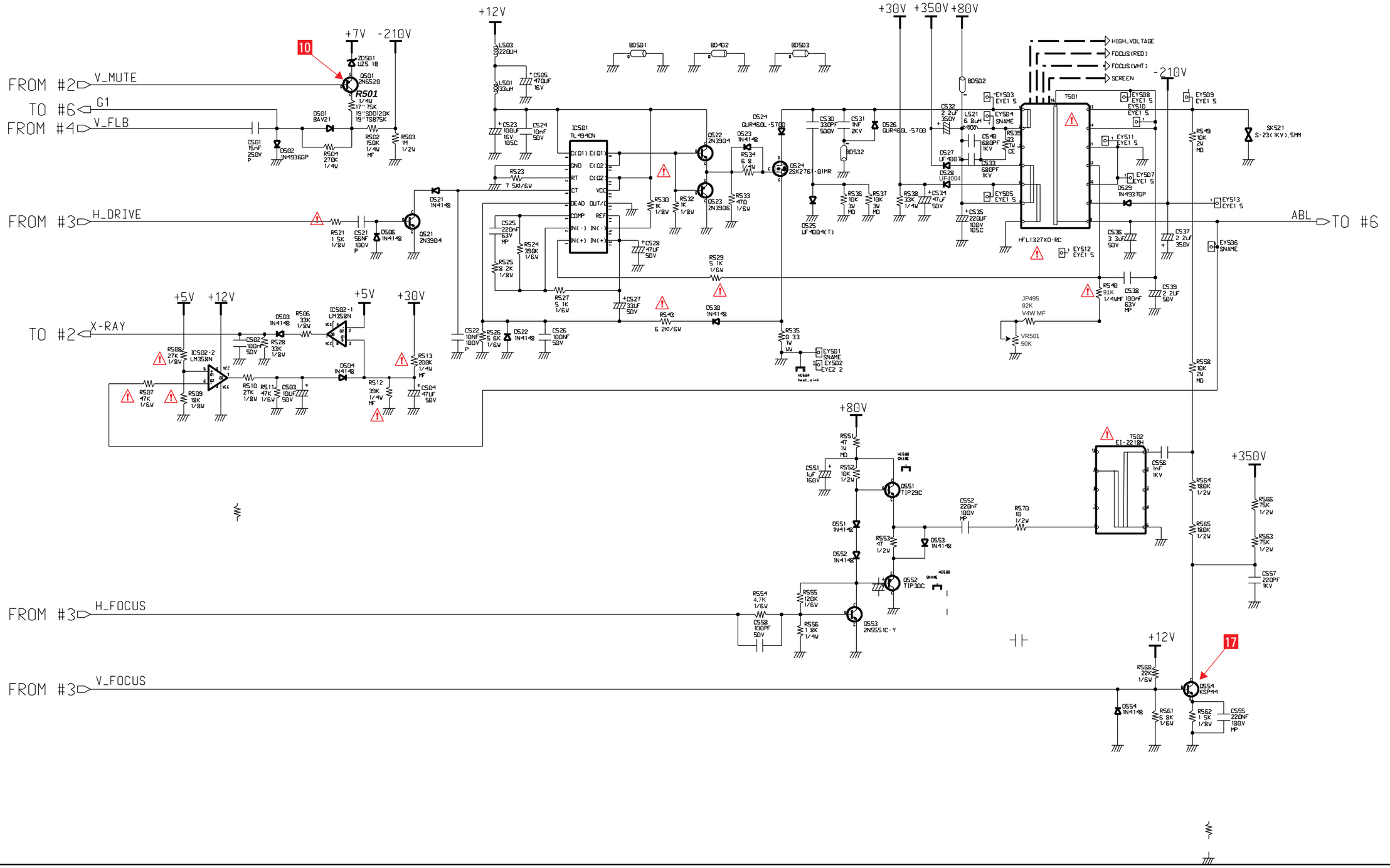




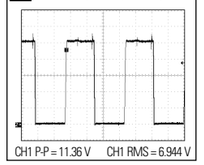




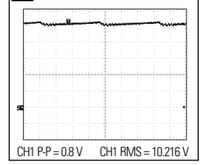
10-5 HIGH VOLTAGE Parts Schematic Diagram



10 11.36 V (Q501, Gate)



17 0.8 V (Q554, Emitter)



10-6 Video Parts Schematic Diagram (17")

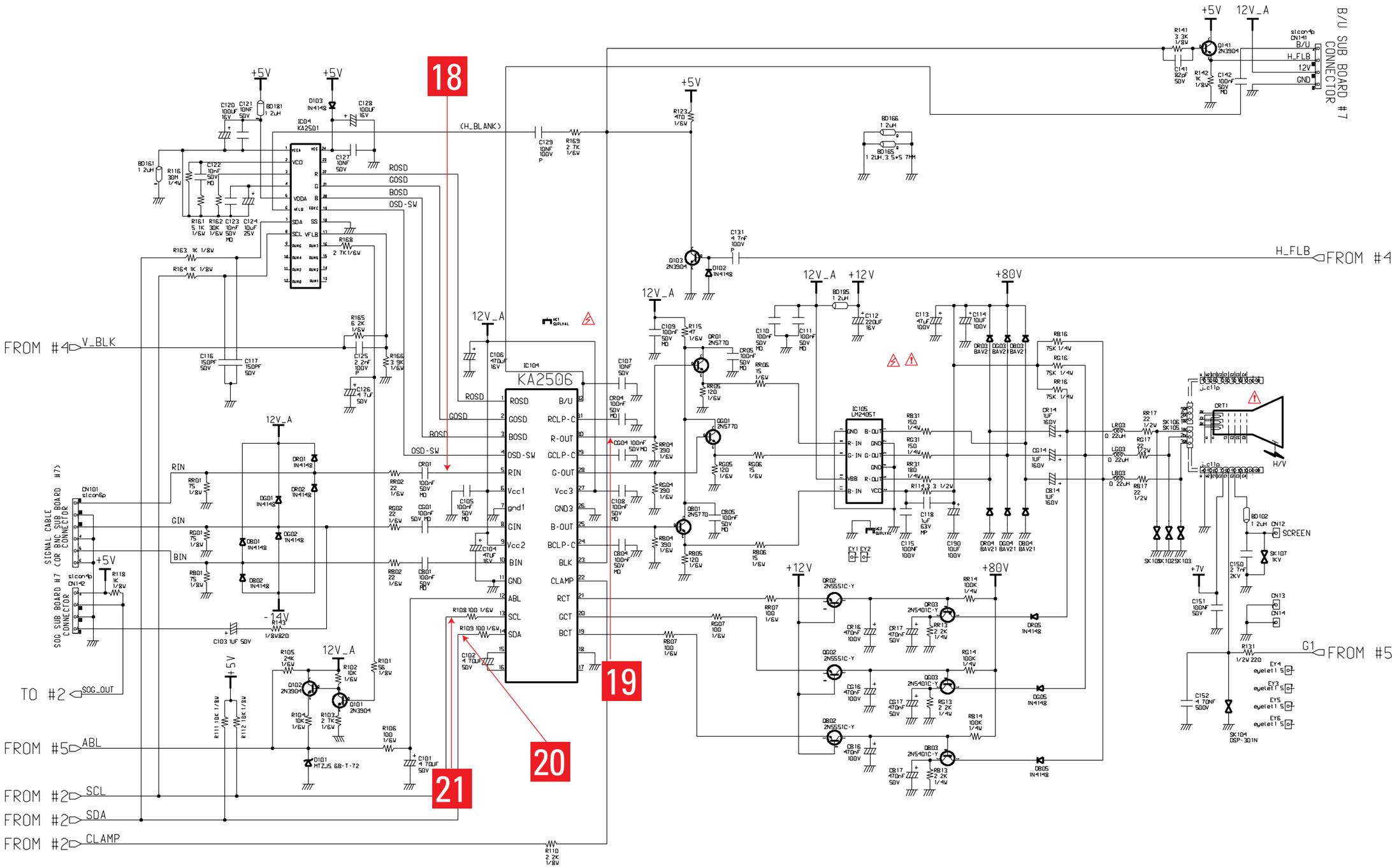


Table 10-7. IC1 (BA7657S)

pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	3.6	3.6	3.6	13	0	0	0
2	3.5	2.6	2.8	14	5	0	0
3	3.6	3.6	3.6	15	2.1	2.1	2.1
4	GND	GND	GND	16	5	5	5
5	3.6	3.6	3.6	17	0	0	0
6	GND	GND	GND	18	3	3	2.9
7	0	0	0	19	2.1	2.1	2.1
8	GND	GND	GND	20	5	5	5
9	0	0	0	21	2.1	2.2	2.1
10	GND	GND	GND	22	4	0	0.3
11	0	0	0	23	0	0	0
12	4.5	0	0	24	4.4	0.3	0.4

Unit: Vrms

Table 10-8. IC03 (VPS14)

pin #	MODES		
	31 kHz	68 kHz	91 kHz
1	11.9	11.9	11.9
2	2.8	2.7	2.6
3	2.1	2	2
4	45	45	46
5	GND	GND	GND
6	44	46	46
7	2.1	2	2
8	2.7	2.6	2.5
9	11.8	11.8	11.8
10	GND	GND	GND
11	11.8	11.8	11.8
12	2.7	2.6	2.5
13	1.9	1.9	2
14	46	47	47
15	80	80	80

Unit: Vrms

Table 10-9. IC04 (KA2501)

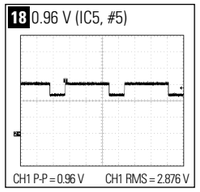
pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	GND	GND	GND	13	NC	NC	NC
2	2.3	2.3	2.4	14	NC	NC	NC
3	1.18	1.2	1.2	15	NC	NC	NC
4	1.18	1.2	1.2	16	5	5	5
5	5	5	5	17	4.5	4.6	4.6
6	4.67	4.3	4	18	GND	GND	GND
7	5	5	5	19	0	0	0
8	5	5	5	20	0	0	0
9	NC	NC	NC	21	0	0	0
10	NC	NC	NC	22	0	0	0
11	NC	NC	NC	23	0	0	0
12	NC	NC	NC	24	5	5	5

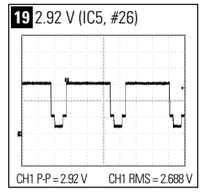
Unit: Vrms

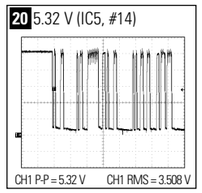
Table 10-10. IC5 (KA2506)

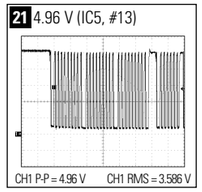
pin #	MODES			pin #	MODES		
	31 kHz	68 kHz	91 kHz		31 kHz	68 kHz	91 kHz
1	0	0	0	15	10.7	10.7	10.7
2	0	0	0	16	10.8	10.7	10.7
3	0	0	0	17	10.8	10.7	10.7
4	0	0	0	18	4.9	5.0	4.8
5	2.4	2.3	2.3	19	4.6	4.3	4.0
6	11.8	11.7	11.7	20	4.5	4.6	4.6
7	GND	GND	GND	21	2.5	2.6	2.5
8	2.4	2.3	2.3	22	GND	GND	GND
9	11.8	11.7	11.7	23	11.8	11.7	11.7
10	2.4	2.3	2.3	24	2.6	2.6	2.5
11	GND	GND	GND	25	4.6	4.6	4.6
12	3.9	3.9	3.9	26	2.6	2.6	2.5
13	5	5	4.7	27	4.6	4.7	4.6
14	5	5	5	28	4.5	4.5	4.5

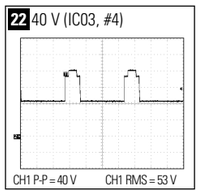
Unit: Vrms

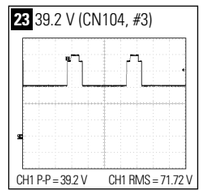


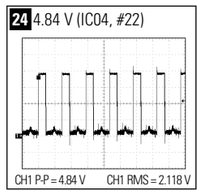


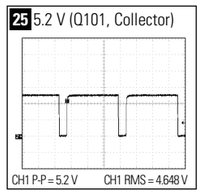


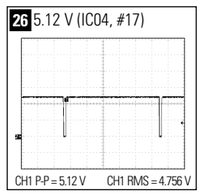




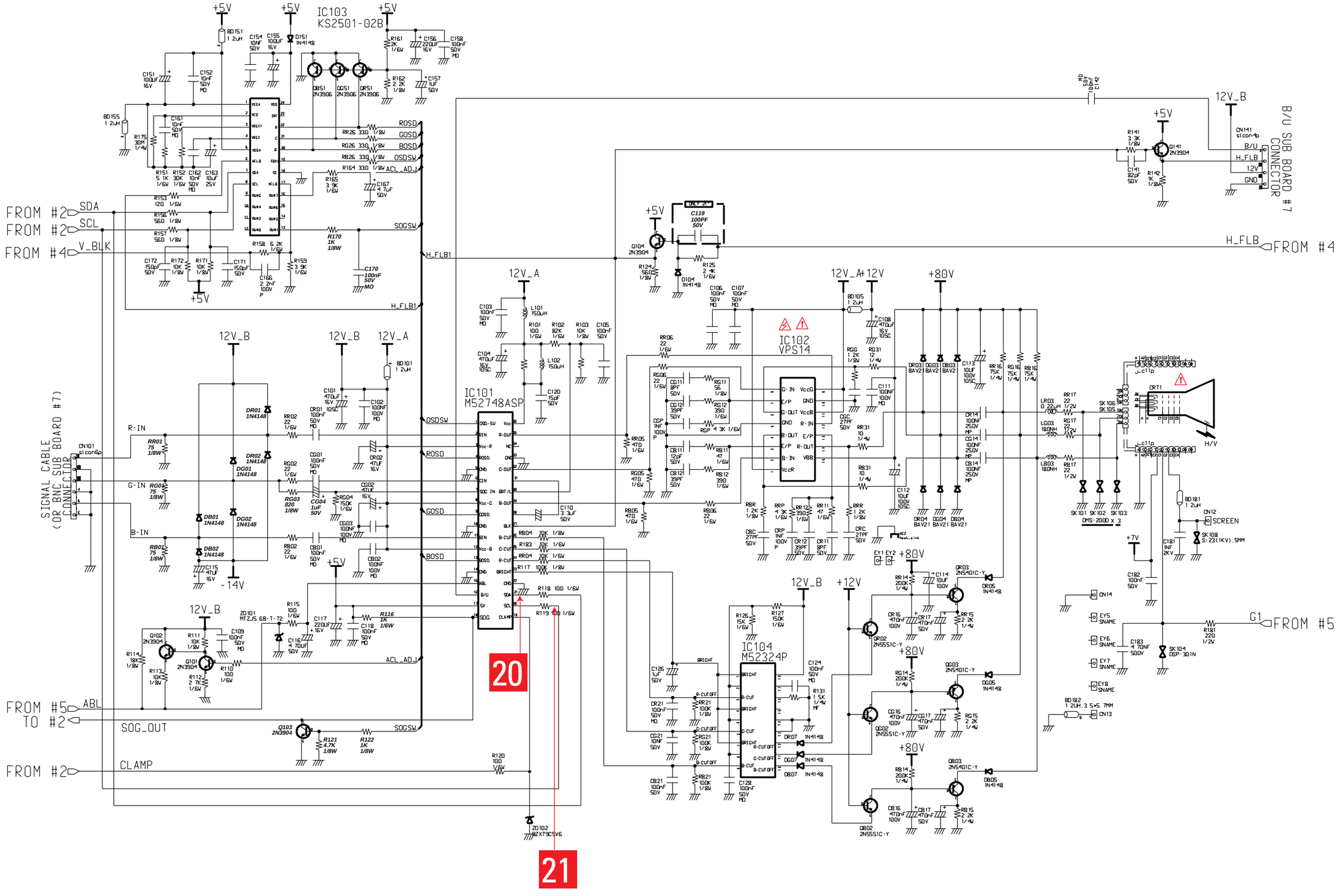




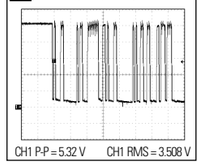




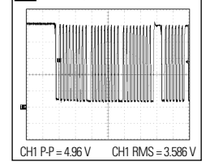
10-7 Video Parts Schematic Diagram (21")



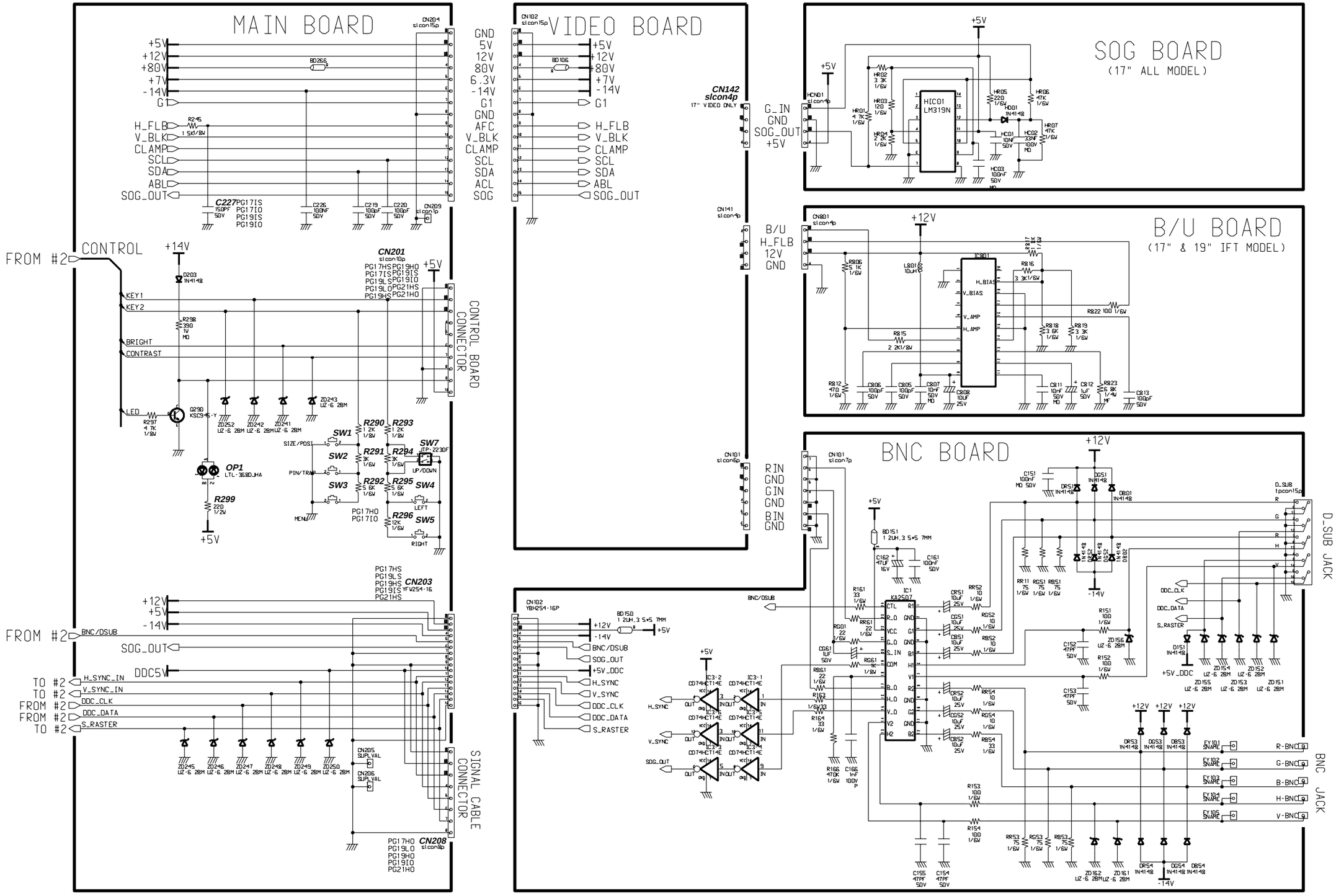
20 5.32 V (IC5, #14)



21 4.96 V (IC5, #13)



10-8 Connector & Option Boards Parts Schematic Diagram



3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the PG17**/PG19**/ PG21** monitors.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

Cautions: 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

3-1-1 Before making Disassembly

1. Disconnector signal cable and power cord from the monitor.
2. With a pad beneath it, stand the monitor on its front with the screen facing downward and the base close to you.
3. Make sure nothing will damage the screen.

3-1-2 Cabinet Disassembly

1. To uncover the 2 uppermost screws. Press in the end of each screw cap and pull it away from the cabinet.
2. Remove the 4 screw on the Rear Cover and pull it toward to remove it.

3-1-3 Removing the Stand

Pull the tab outward on the Chassis Bottom and pull the Tilt and Swivel Base up to remove it.

3-1-4 Removing the Top Shield

Remove the 1 screws on the Top Shield Cover and remove the Shield.

3-1-5 Removing the Bottom Shield

1. Remove the 1 screw on the Bottom Shield Cover.
2. Lift off the Bottom Shield.

3-1-6 Removing the Video PCB Assembly

1. Remove the Video PCB from the CRT.
2. Disconnect CN102, CN103, CN12 and CN13 on the Video PCB Assembly and Video PCB Ass'y from the CRT Neck.

3-1-7 Removing the Video PCB Assembly Rear Shield and Video PCB

1. Remove the 3 screws on the PCB Assembly.
2. Remove the Video PCB Assembly Rear Shield. (5 point)
3. Lift out the Video PCB and pleat it on a flat, level surface that is protected from static electricity.

3-1-8 Removing the Main PCB Assembly

1. Remove both side screws (4 screws) on the lower edge of the CRT Bracket.
2. Remove Chassis Ground Wire on the both side.
3. Disconnect CN201, CN409, CN601, H_DY, CN604 and Anode Cap on the Main PCB Assembly.

3-1-9 Removing the Main PCB

1. Remove 6 screws on the main PCB.
2. Pull the Main PCB towards you and carefully lift out the main PCB and placet it on a flat, level surface that is protected from static electricity.

3-1-10 Removing the Bracket

1. Remove the 10 screws on the Front Cabinet.

3-1-11 Removing the Degaussing Coil

1. Using pinch-nosed pliers or long-nosed pliers, carefully push the 4 plastic ties on the Bracket.
2. Lift the Degaussing Coil Assembly from the Bracket.

3-2 Reassembly

Reassembly procedures are in the reverse order of Disassembly procedures.

4 Alignment and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor. Direction is given for adjustment using the monitor Interface Board Ver. 2.0 and software (Softjig).

4-1 Adjustment Conditions

Caution: Changes made without the Softjig are saved only to the user mode settings. As such, the settings are not permanently stored and may be inadvertently deleted by the user.

4-1-1 Before Making Adjustments

4-1-1 (a) ORIENTATION

When servicing, always face the monitor to the east.

4-1-1 (b) MAGNETIC FIELDS

Whenever possible, use magnetic field isolation equipment such as a Helmholtz field to surround the monitor. If a Helmholtz field is not available, frequently degauss the unit under test.

Caution: Other electrical equipment may cause external magnetic fields which may interfere with monitor performance.

Use an external degaussing coil to limit magnetic build up on the monitor. If an external degaussing coil is not available, use the internal degaussing circuit. However, do not use the internal degaussing circuit more than once per 30 minutes.

4-1-1 (c) WARM-UP TIME

The monitor must be on for 30 minutes before starting alignment. Warm-up time is especially critical in color temperature and white balance adjustments.

4-1-1 (d) SIGNAL

Analog, 0.7 Vp-p positive at 75 ohm, internal termination
Sync: Separate/Composite
(TTL level negative/positive)

Sync-on-Green:
Composite sync 0.3 Vp-p negative
(Video 0.7 Vp-p positive)

4-1-1 (e) SCANNING FREQUENCY

Horizontal: 30 kHz to 115 kHz (Automatic)
Vertical: 50 Hz to 160 Hz (Automatic)

Unless otherwise specified, adjust at the 1024 x 768 mode (H: 68 kHz, V: 85 Hz) signals.

Refer to Table 2-1 on pages 2-2 and 2-3.

4-1-1 (f) HIGH VOLTAGE ADJUSTMENT

Signal: 1024 x 768 mode (68 kHz/85 Hz)
Display image: Full white
Contrast: Maximum
Brightness: Maximum
Limit: 27.3 kV ± 0.5 kV
(17": 26 kV ± 0.5 kV)

Measure the hight voltage level at the anode cap. High voltage should be within the limit as above. If the high voltage needs adjustment use the Softjig.

4-1-1 (g) G2 (SCREEN) VOLTAGE ADJUSTMENT

Signal: 1024 x 768 mode (68 kHz/85 Hz)
Display image: Full white
Contrast: Maximum
Brightness: Maximum

Adjust the Screen VR of the FBT so that the G2 (Screen) Voltage for Toshiba it is 540 V ± 10 V.

4-1-1 (h) CENTER RASTER

Adjust VR401 so that the back raster comes to the center when you apply a signal of 91 kHz/85 Hz.

PG17H*	SDD	TOSHIBA
G2	525V	635V

PG19S* PG19R*	MEC	SDD
G2	560V	530V

4-1-1 (i) BRIGHTNESS AND CONTRAST

Unless otherwise specified, adjust control volumes:

Brightness: Maximum
Contrast: Maximum

4-1-2 Required Equipment

The following equipment may be necessary for adjustment procedures:

4-1-2 (a) DISPLAY CONTROL ADJUSTMENT

1. Non-metallic (–) screwdriver: 1.5 mm
   Non-metallic (–) screwdriver: 3 mm
2. Philips (+) screwdriver: 1.5 mm
3. Non-metallic hexkey: 2.5 mm
4. Digital Multimeter (DMM), or
   Digital Voltmeter (DVM)
5. Signal generator, or
   Computer with a video board that uses the ET-4000 chipset (strongly recommended if using Samsung DM 200 software) and that displays: 1280 x 1024 @ 85 Hz, or 1600 x 1200 @ 85 Hz (maximum).
6. Personal computer
7. Required software: Softjig.exe from Samsung which includes the SF9839TE.MDL (Toshiba CRT) data file
   Samsung DM200, or DisplayMate for Windows from Sonera Technologies
8. Interface Board Ver. 2.0 Code No. BH81-90001K
9. Parallel communications cable (25-pin to 25-pin); Code No. BH81-90001H
10. Signal cable (15-pin to 15-pin cable with additional 3-pin connector); Code No. BH81-90001J
11. 5 V DC adapter, not supplied

Note: Softjig Ass'y (includes items 8, 9 and 10) Code No. BH81-90001L

4-1-2 (b) COLOR ADJUSTMENTS

1. All equipment listed in 4-1-2 (a), above
2. Color analyzer, or any luminance measurement equipmen

4-1-3 Connecting the SoftJig

Connect the monitor to the signal generator and/or PC as illustrated in Figures 4-1 and 4-2.

Note: The signal cable connector which includes the 3-wire cable must connect to the monitor. If you use Setup 2 (PC only, no signal generator) you can only make adjustments to the signal timing available on that computer system. To make corrections to all factory timings requires the use of an additional signal generator.

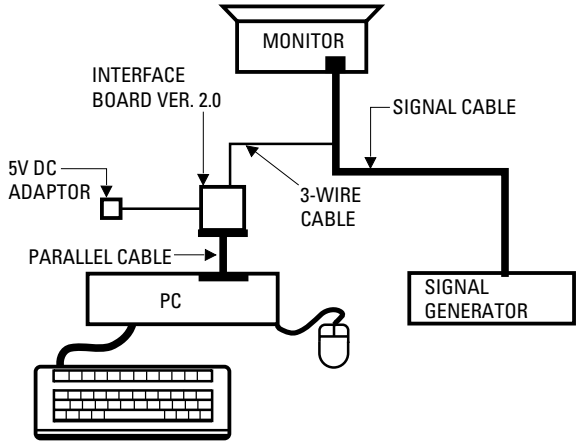


Figure 4-1. Setup 1, With Signal Generator

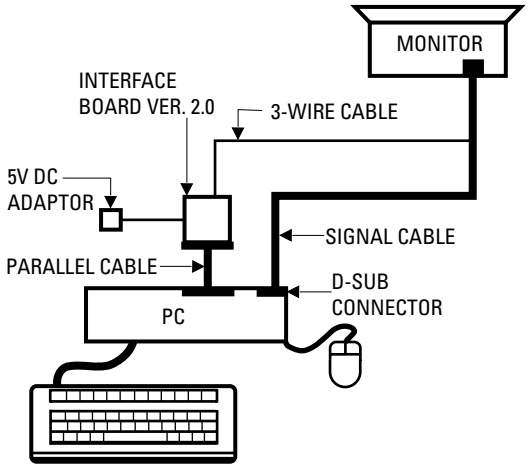


Figure 4-2. Setup 2, Without Signal Generator

4-1-4 After Making Adjustments

After finishing all adjustments, test the monitor in all directions. If, for example, the monitor does not meet adjustment specifications when facing north, reposition the monitor to face east and readjust. This time, try for an adjustment closer to the ideal setting within the tolerance range. Test the unit again in all directions. If the monitor again fails to meet specifications in every direction, contact your Regional After Service Center for possible CRT replacement.

4-2 Display Control Adjustments

4-2-1 Centering

Centering means to position the center point of the display in the middle of the display area. Horizontal size and position and vertical size and position control the centering of the display.

Adjust the horizontal size and vertical size to their optimal settings: 352 mm (H) x 264 mm (V).
1280 x 1024 mode (91 kHz/85Hz)

Adjust the horizontal position and vertical position to ≤ 4.0 mm of the center point of the screen.

| A-B | ≤ 4.0 mm. | C-D | ≤ 4.0 mm.

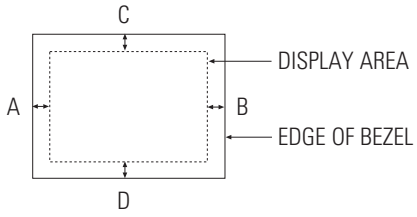


Figure 4-3. Centering

4-2-1 (a) HORIZONTAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **H_SIZE** to adjust the horizontal size of the display pattern to 352 mm. (Tolerance: ± 3 mm.)

4-2-1 (b) VERTICAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **V_SIZE** to adjust the vertical size of the display pattern to 264 mm. (Tolerance: ± 3 mm.)

4-2-1 (c) HORIZONTAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **H_POSI** to center the horizontal image on the raster.

4-2-1 (d) VERTICAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **V_POSI** to center the vertical image on the raster.

4-2-2 Linearity

Linearity affects the symmetry of images as they appear on the screen. Unless each row or column of blocks in a crosshatch pattern is of equal size, or within the tolerances shown in Tables 4-1 and 4-2, an image appears distorted, elongated or squashed.

Table 4-1. Factory Preset Modes Linearity

	Standard Modes Linearity	
	Each block (10 %)	Difference between adjacent blocks (4 %)
4 : 3	Horizontal: 20.9~23.1 Vertical : 20.9~23.1	Horizontal: Less than 0.88 mm Vertical : Less than 0.88 mm
5 : 4	Horizontal: 19.60~21.65 Vertical : 20.9~23.1	Horizontal: Less than 0.82 mm Vertical : Less than 0.88 mm

Table 4-2. Other Modes Linearity: VGA, SVGA, XGA, MAC, etc.

	Supported Timing Mode	
	Each block (14 %)	Difference between adjacent blocks (5 %)
4 : 3	Horizontal: 20.5~23.5 Vertical : 20.5~23.5	Horizontal: Less than 1.10 mm Vertical : Less than 1.10 mm
5 : 4	Horizontal: 19.18~22.07 Vertical : 20.5~23.5	Horizontal: Less than 1.03 mm Vertical : Less than 1.10 mm

4-2-2 (a) HORIZONTAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

To adjust the Horizontal Linearity, refer to Tables 4-1 and 4-2 for the tolerance range.

Click on the << or >> box next to **H_LIN** to optimize the image.

4-2-2 (b) VERTICAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

To adjust the Vertical Linearity, refer to Tables 4-1 and 4-2 for the tolerance range.

Click on the << or >> box next to **V_LIN** to optimize the image.

4-2-3 Trapezoid Adjustment

CONDITIONS

Scanning frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **TRAP** to make the image area rectangular.

| A - B | < 5 mm

Figure 4-4. Trapezoid

4-2-4 Pinbalance Adjustment

CONDITIONS

Scanning frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

| D1 |, | D2 | ≤ 2.0 mm

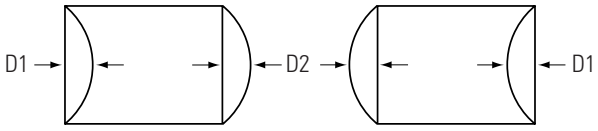


Figure 4-5. Pinbalance

Click on the << or >> box next to **PIN_BAL** to optimize the image.

4-2-5 Parallelogram Adjustment

CONDITIONS

Scanning Frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **PARALL** to make the image are rectangular.

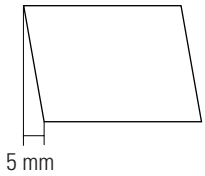


Figure 4-6. Parallelogram

4-2-6 Side Pincushion Adjustment

CONDITIONS

Scanning frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **BARREL** to straighten the sides of the image area.

| C1 |, | C2 | ≤ 2.0 mm, | D1 |, | D2 | ≤ 2.0 mm.

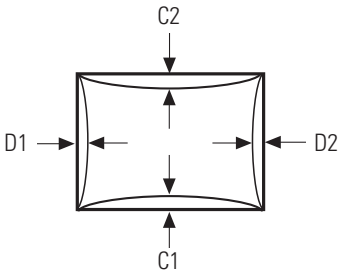


Figure 4-7. Pincushion

4-2-7 Tilt Adjustment

CONDITIONS

Scanning Frequency:	91 kHz/85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **ROTATE** to correct the tilt of the display.

4-2-8 Degauss

No adjustments are available for the degaussing circuit. The degaussing circuit can effectively function only once per 30 minutes.

4-2-9 To Delete the User Mode Data

To delete the adjustment data from the user modes, Press the **MENU Button** for the 10 Seconds **.**

4-2-10 Save the Data

To save the adjustment data for a mode, press **FACTORY SAVE**.

4-3 Color Adjustments

4-3-1 Color Coordinates (Temperature)

Color temperature is a measurement of the radiant energy transmitted by a color. For computer monitors, the color temperature refers to the radiant energy transmitted by white. Color coordinates are the X and Y coordinates on the chromaticity diagram of wavelengths for the visible spectrum.

CONDITIONS

Measurement instrument:	Color analyzer
Scanning frequency:	68 kHz/85 Hz
Display Size :	352 (H) x 264 (V)
Display image:	White flat field at center of display area
Brightness:	Cut-off
Contrast:	Maximum

PROCEDURE

Use the directions in sections 4-3-2 through 4-3-4 to adjust the color coordinates for:
9300K to x = 0.283 ± 0.02, y = 0.298 ± 0.02
6500K to x = 0.313 ± 0.02, y = 0.329 ± 0.02
5000K to x = 0.346 ± 0.02, y = 0.359 ± 0.02

4-3-2 Color Adjustments for 9300K

4-3-2 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 1** to control the color for 9300K.
2. Adjust the luminance of the back raster to between 0.3 to 1ft-L using the **G_CUT** controls.
3. Click on the << or >> box next to **B_CUT** to set the "y" coordinate to 0.298 ± 0.02.
4. Click on the << or >> box next to **R_CUT** to set the "x" coordinate to 0.283 ± 0.02.

   Note: If the above adjustments cannot be done to each coordinate, click on the << or >> box next to **G_CUT** to decrease or increase the green cutoff (bias) and repeat procedures 2 and 3.

4-3-2 (b) G-GAIN ADJUSTMENT

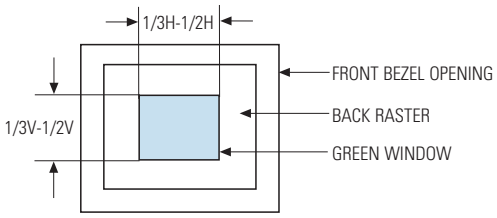


Figure 4-8. Green Box Pattern

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Green box pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> box next to **G_GAIN** to adjust the brightness of the Green Gain to 25 ± 1 ft-L.

   Note: If you can't increase the Green Gain to the appropriate value, click on the >> box next to increase the **ABL** point.

4-3-2 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

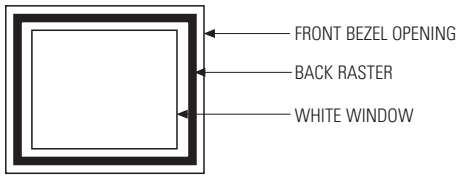


Figure 4-9. Full White Pattern

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 9300K color adjustment: x = 0.283 ± 0.02, y = 0.298 ± 0.02.)

   Note: Do not touch the **G_GAIN** controls.
2. Check the ABL. If it is not within the specifications (30 ± 1 ft-L), use the ABL controls to adjust it.
3. Select **COLOR FACTORY SAVE** to save the data.

4-3-2 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Back raster pattern
X-Y Coordinates:	x = 0.283 ± 0.02, y = 0.298 ± 0.02
Raster Luminance	0.3 ~ 1ft-L
ABL Luminance	30 ± 1 ft-L
Brightness:	Cut-off
Contrast:	Maximum

1. Check whether the color coordinates of the back raster satisfy the above spec.

   If they do not, return to 4-3-2 (a) and readjust all settings.
2. Display a full white pattern.

Note: Do not touch the **G_GAIN** controls.

3. Adjust the Contrast Control on the monitor so that the luminance of the video is about 5 ft-L.
4. Check whether the white coordinates of the video meet the above coordinates spec.
5. Adjust the Contrast Control again so that the luminance of the video is about 20 ft-L.
6. Check whether the white coordinates of the video satisfies the above spec.

   If they do not, return to 4-3-2 (a) and readjust all settings.

4-3-3 Color Adjustments for 6500K

4-3-3 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 2** to control the color for 6500K.
2. Adjust the luminance of the back raster to between 0.3 to 1.0 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.313 ± 0.02 and the B-Bias to y = 0.329 ± 0.02.

4-3-3 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

4-3-3 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 6500K color adjustment: x = 0.313 ± 0.02, y = 0.329 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

4-3-3 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

Refer to the procedure for 9300K, section 4-3-2 (d).

4-3-4 Color Adjustments for 5000K

4-3-4 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 3** to control the color for 5000K.
2. Adjust the luminance of the back raster to between 0.3 to 1.0 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.346 ± 0.02 and the B-Bias to y = 0.359 ± 0.02.

4-3-4 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

Adjust the brightness of the **G_GAIN** less 5 ft-L than brightness of procedure for 9300K.

4-3-4 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 5000K color adjustment: x = 0.346 ± 0.02, y = 0.359 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

4-3-4 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

Refer to the procedure for 9300K, section 4-3-2 (d).

4-3-5 Luminance Uniformity Check

Luminance is considered uniform only if the ratio of lowest to highest brightness areas on the screen is not less than 7.5:10.

CONDITIONS

Scanning frequency:	68 kHz/85 Hz (1024 x 768)
Display image:	White flat field
Display size	352 (H) x 264 (V)
Brightness:	Cut off point
Contrast:	Maximum

PROCEDURE

Measure luminance at nine points on the display screen (see figure below).

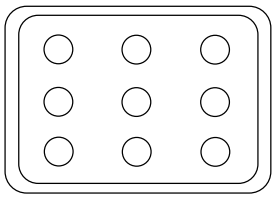


Figure 4-10 Luminance Uniformity Check Locations

4-3-6 Focus Adjustment

CONDITIONS

Scanning frequency:	68 kHz/85 Hz
Display image:	"H" character pattern
Brightness:	Cut off point
Contrast:	Maximum

PROCEDURE

1. Adjust the Focus VR on the FBT to display the sharpest image possible.
2. Use Locktite to seal the Focus VR in position.

4-3-7 Color Purity Adjustment

Color purity is the absence of undesired color. Conspicuous mislanding (unexpected color in a uniform field) within the display area shall not be visible at a distance of 50 cm from the CRT surface.

CONDITIONS

Orientation:	Monitor facing east
Scanning frequency:	68 kHz/85 Hz
Display image:	White flat field
Luminance:	Cut off point at the center of the display area

Note: Color purity adjustments should only be attempted by qualified personnel.

PROCEDURE

For trained and experienced service technicians only.

Use the following procedure to correct minor color purity problems:

1. Make sure the display is not affected by external magnetic fields.
2. Very carefully break the glue seal between the 2-pole purity convergence magnets (PCM), the band and the spacer.
3. Make sure the spacing between the PCM assembly and the CRT stem is 29 mm ± 1 mm.
4. Display a green pattern over the entire display area.
5. Adjust the purity magnet rings on the PCM assembly to display a pure green pattern. (Optimum setting: x = 0.295 ± 0.015, y = 0.594 ± 0.015)
6. Repeat steps 4 and 5 using a red pattern and then again, using a blue pattern.

Table 4-3. Color Purity Tolerances

Red:	x = 0.620 ± 0.015	y = 0.334 ± 0.015
Green:	x = 0.289 ± 0.015	y = 0.595 ± 0.015
Blue:	x = 0.153 ± 0.015	y = 0.072 ± 0.015

(For 9300K color adjustment: x = 0.283 ± 0.02, y = 0.298 ± 0.02)

7. When you have the PCMs properly adjusted, carefully glue them together to prevent their movement during shipping.

Memo

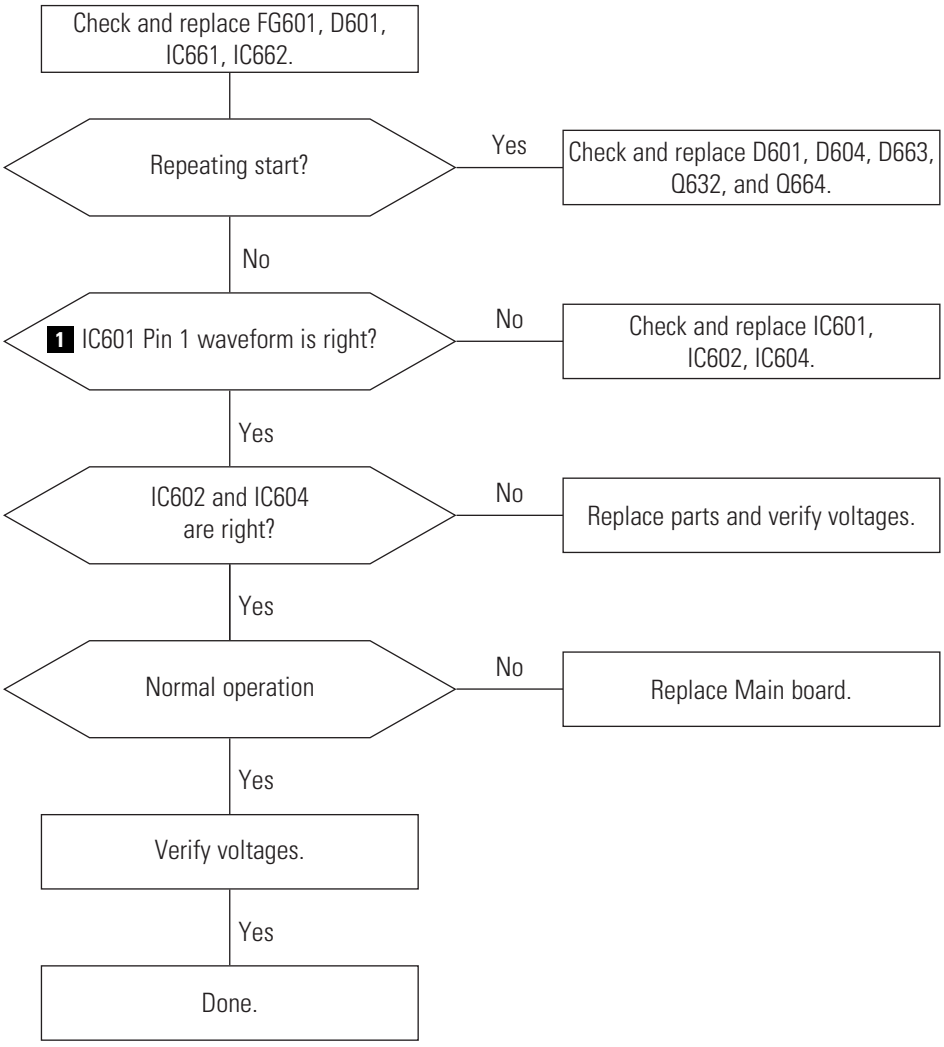
5 Troubleshooting

5-1 Parts Level Troubleshooting

Notes: 1. If a picture does not appear, fully rotate the brightness and contrast controls clockwise and reinspect.

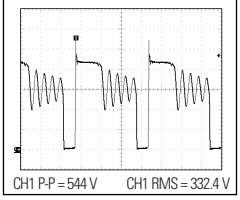
2. Check the following circuits.
   - No raster appears: Power circuit, Horizontal output circuit, H/V control circuit, and H/V output circuit.
   - High voltage develops but no raster appears: Video output circuits.
   - High voltage does not develop: Horizontal output circuits.

5-1-1 No Power Supply

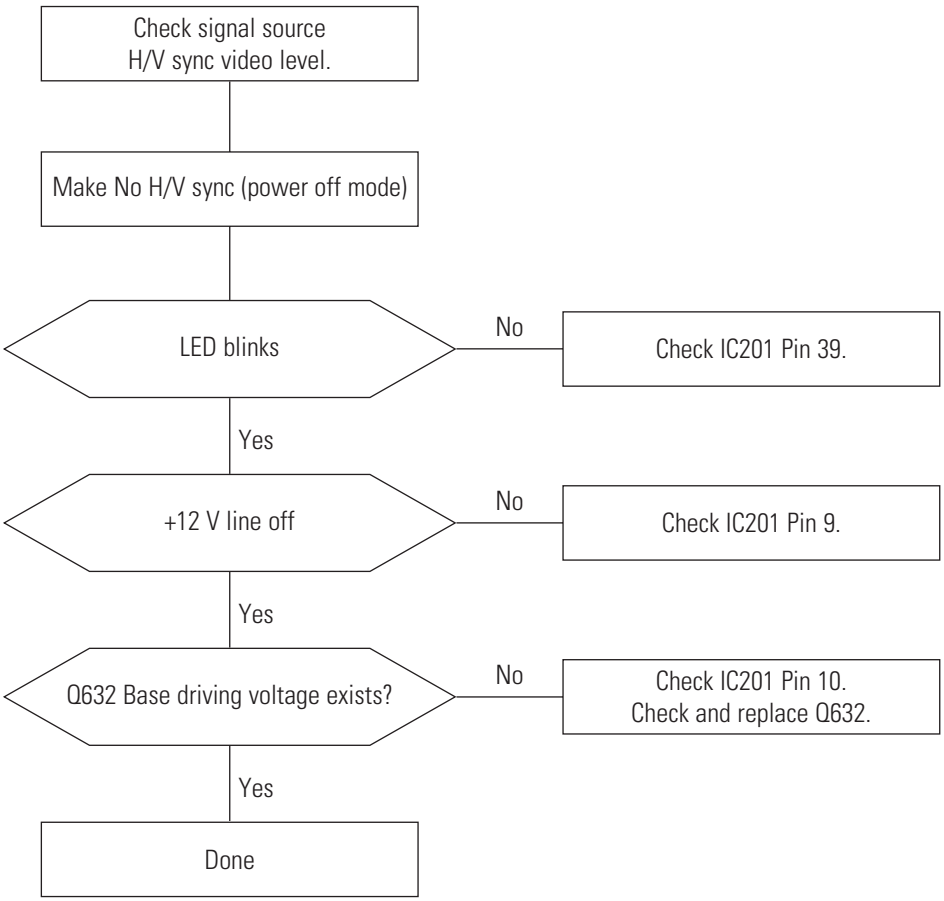


WAVEFORMS

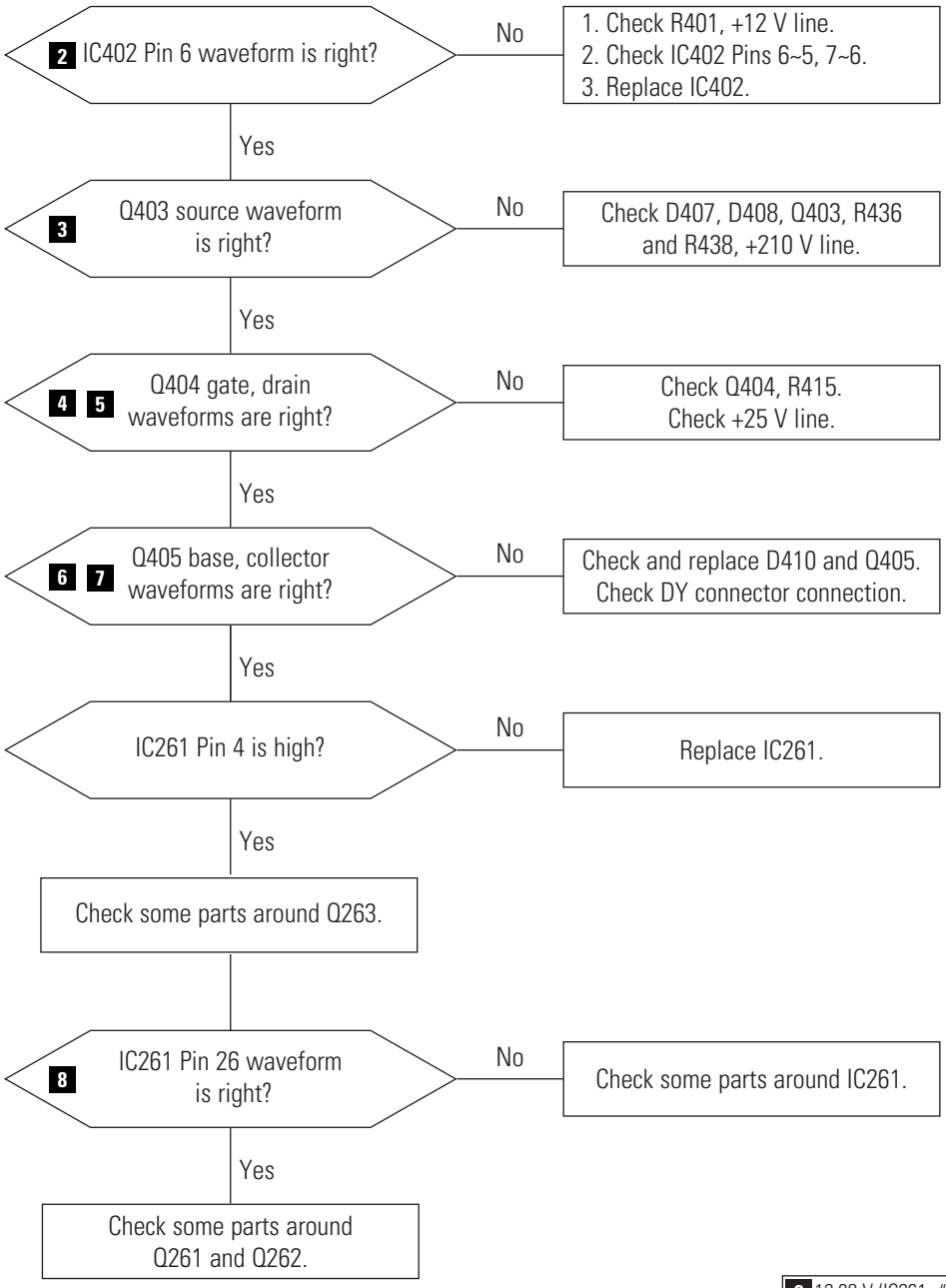
1 544 V (IC601, #1)



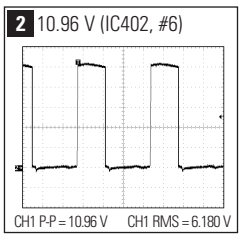
5-1-2 DPMS Failure

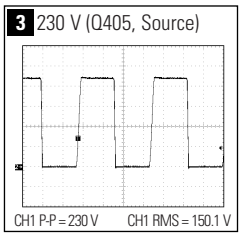


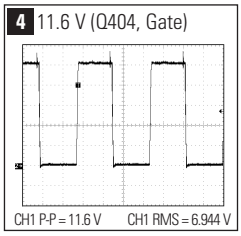
5-1-3 H_Deflection Failure

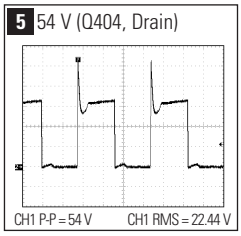

2 IC402 Pin 6 waveform is right?
No
1. Check R401, +12 V line.
2. Check IC402 Pins 6~5, 7~6.
3. Replace IC402.
Yes
3 Q403 source waveform is right?
No
Check D407, D408, Q403, R436 and R438, +210 V line.
Yes
4 5 Q404 gate, drain waveforms are right?
No
Check Q404, R415. Check +25 V line.
Yes
6 7 Q405 base, collector waveforms are right?
No
Check and replace D410 and Q405. Check DY connector connection.
Yes
IC261 Pin 4 is high?
No
Replace IC261.
Yes
Check some parts around Q263.
8 IC261 Pin 26 waveform is right?
No
Check some parts around IC261.
Yes
Check some parts around Q261 and Q262.

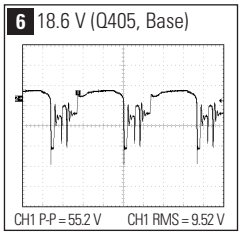
WAVEFORMS

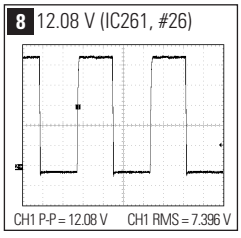


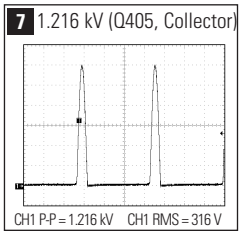




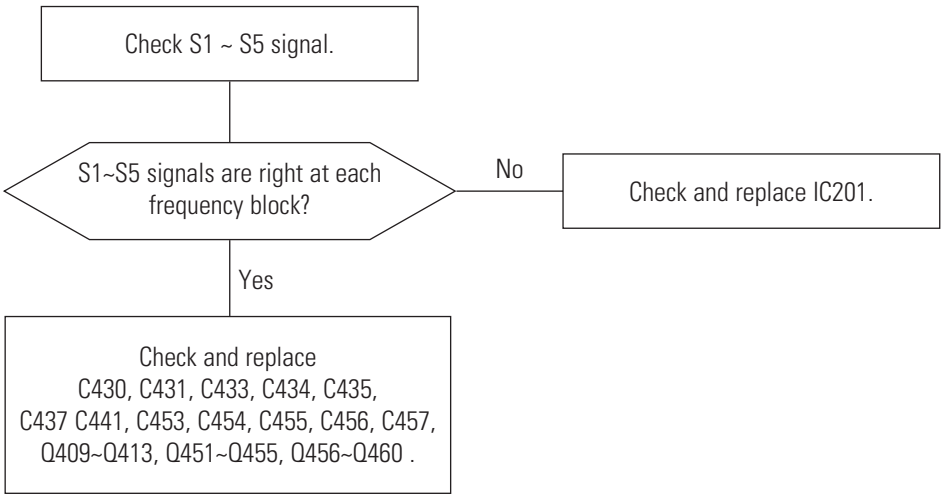




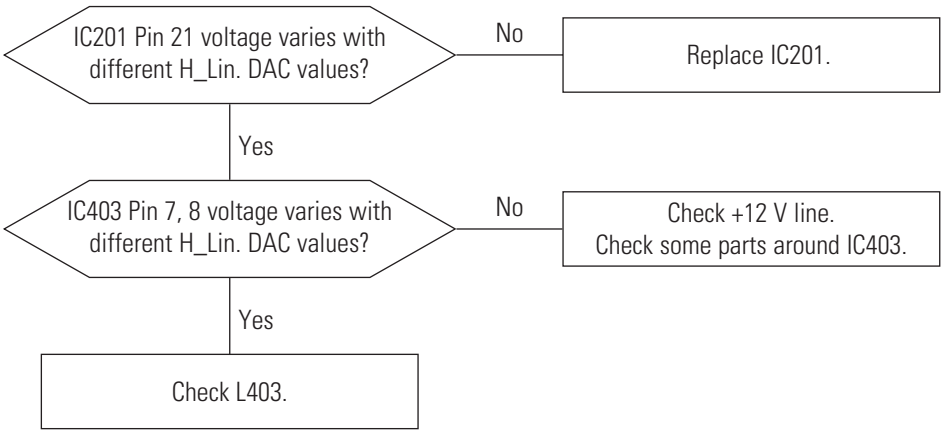




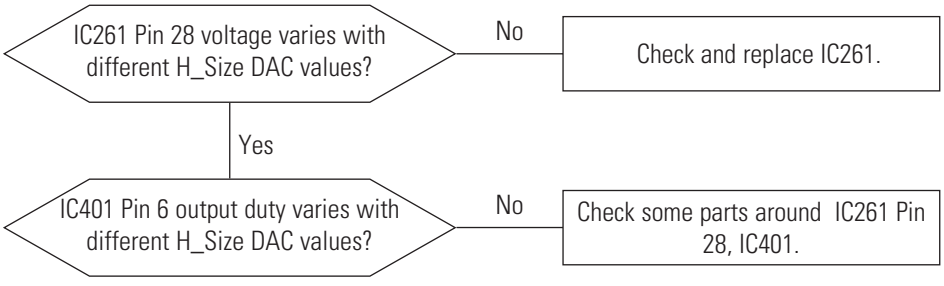
5-1-4 S Correction Failure


Check S1 ~ S5 signal.
S1~S5 signals are right at each frequency block?
No
Check and replace IC201.
Yes
Check and replace
C430, C431, C433, C434, C435,
C437 C441, C453, C454, C455, C456, C457,
Q409~Q413, Q451~Q455, Q456~Q460 .

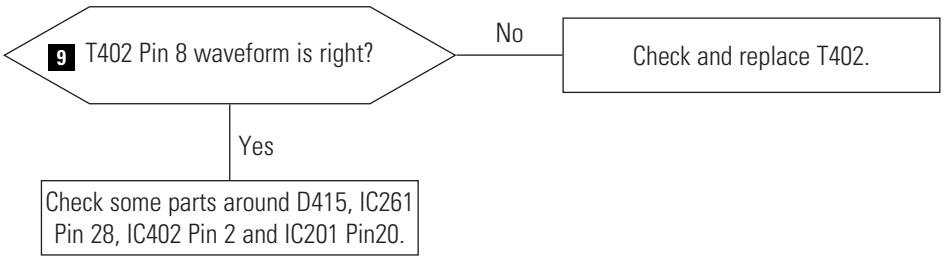
5-1-5 H_Lin. Failure



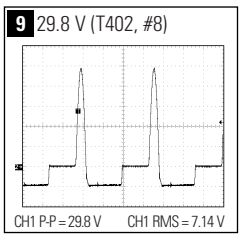
5-1-6 Invariable H_Size


IC261 Pin 28 voltage varies with different H_Size DAC values?
No
Check and replace IC261.
Yes
IC401 Pin 6 output duty varies with different H_Size DAC values?
No
Check some parts around IC261 Pin 28, IC401.

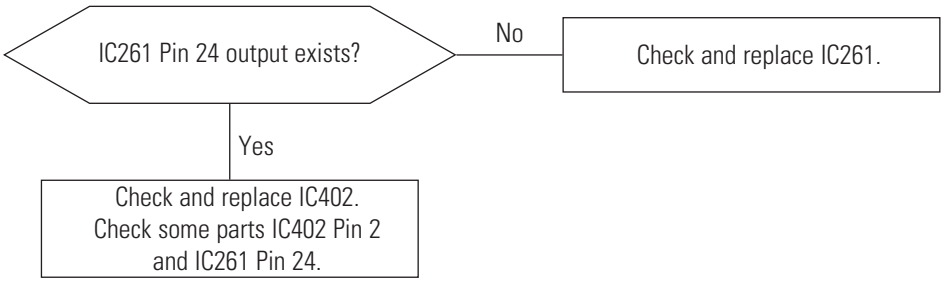
5-1-7 Abnormal H_Size


9 T402 Pin 8 waveform is right?
No
Check and replace T402.
Yes
Check some parts around D415, IC261 Pin 28, IC402 Pin 2 and IC201 Pin20.

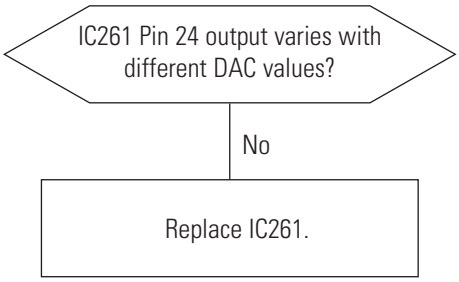
WAVEFORMS



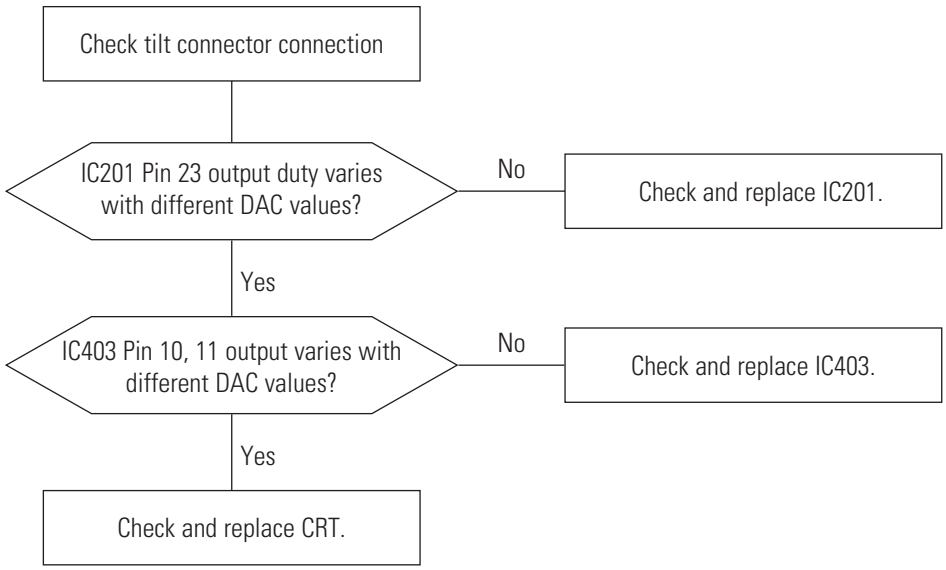
5-1-8 Side Pin or Trap Failure


IC261 Pin 24 output exists?
No
Check and replace IC261.
Yes
Check and replace IC402.
Check some parts IC402 Pin 2 and IC261 Pin 24.

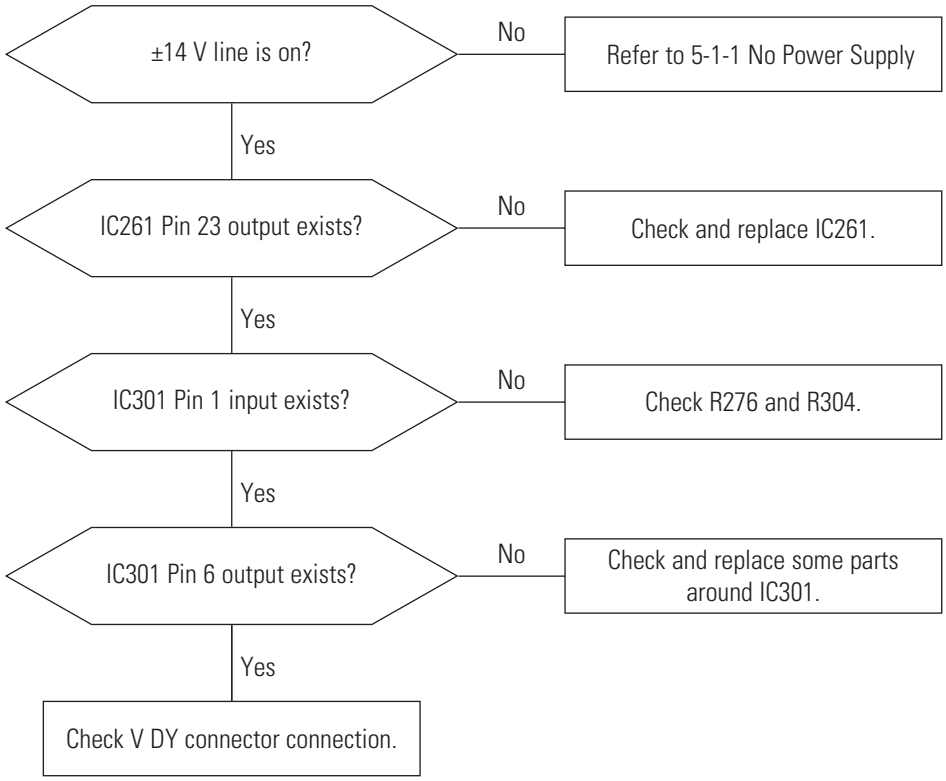
5-1-9 Para. or Pin Balance Failure



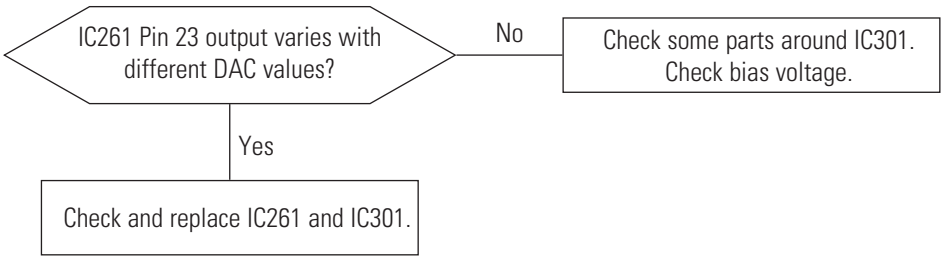
5-1-10 Tilt Failure


Check tilt connector connection
IC201 Pin 23 output duty varies with different DAC values?
No
Check and replace IC201.
Yes
IC403 Pin 10, 11 output varies with different DAC values?
No
Check and replace IC403.
Yes
Check and replace CRT.

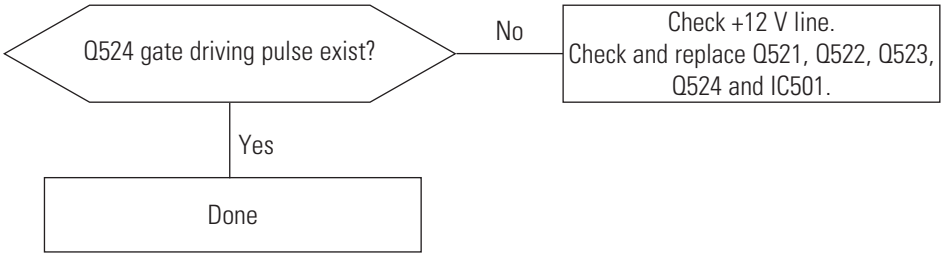
5-1-11 V Deflection Failure



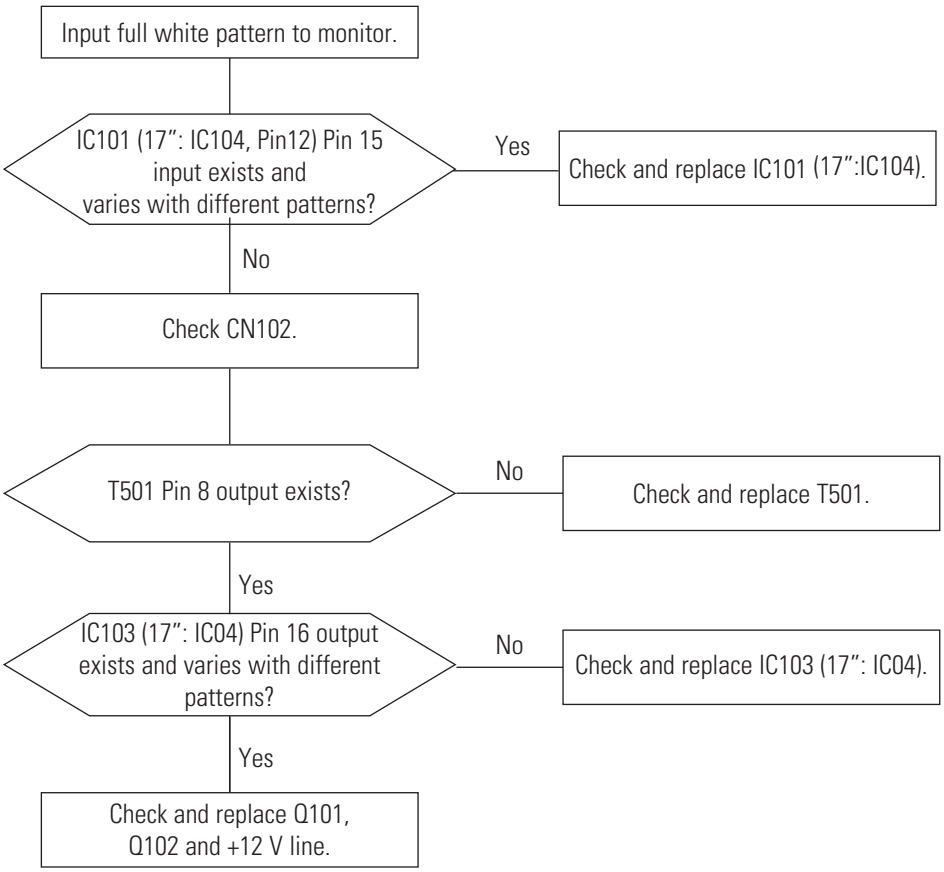
5-1-12 V Size or Pos. Variation Failure


IC261 Pin 23 output varies with different DAC values?
No
Check some parts around IC301. Check bias voltage.
Yes
Check and replace IC261 and IC301.

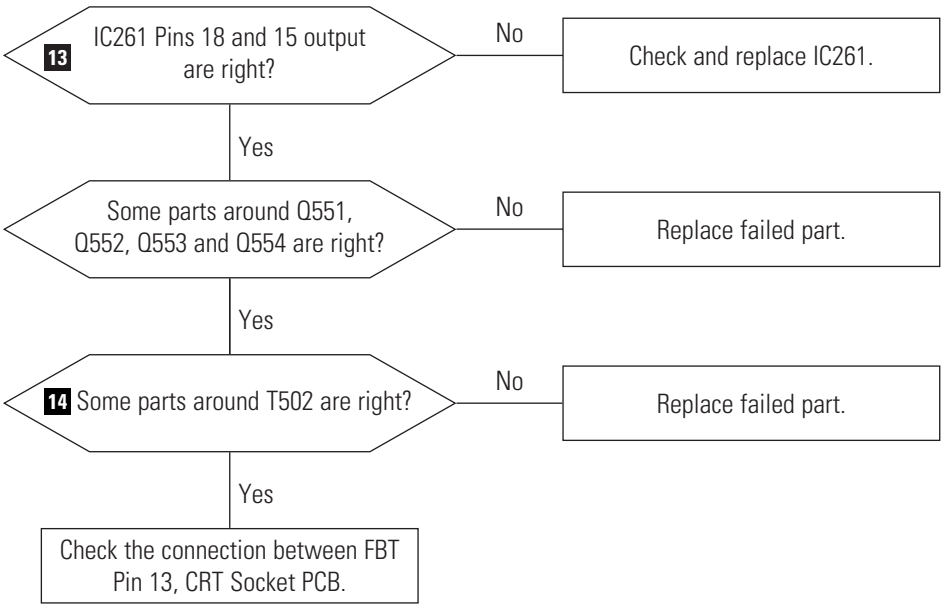
5-1-13 High Voltage Failure



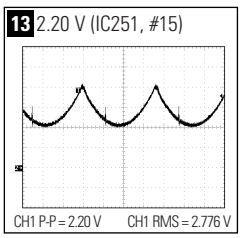
5-1-14 ABL Failure

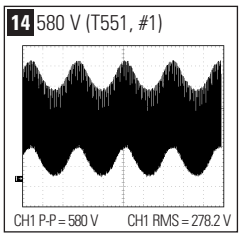

Input full white pattern to monitor.
IC101 (17": IC104, Pin12) Pin 15 input exists and varies with different patterns?
Yes
Check and replace IC101 (17":IC104).
No
Check CN102.
T501 Pin 8 output exists?
No
Check and replace T501.
Yes
IC103 (17": IC04) Pin 16 output exists and varies with different patterns?
No
Check and replace IC103 (17": IC04).
Yes
Check and replace Q101, Q102 and +12 V line.

5-1-15 Dynamic Focus Failure

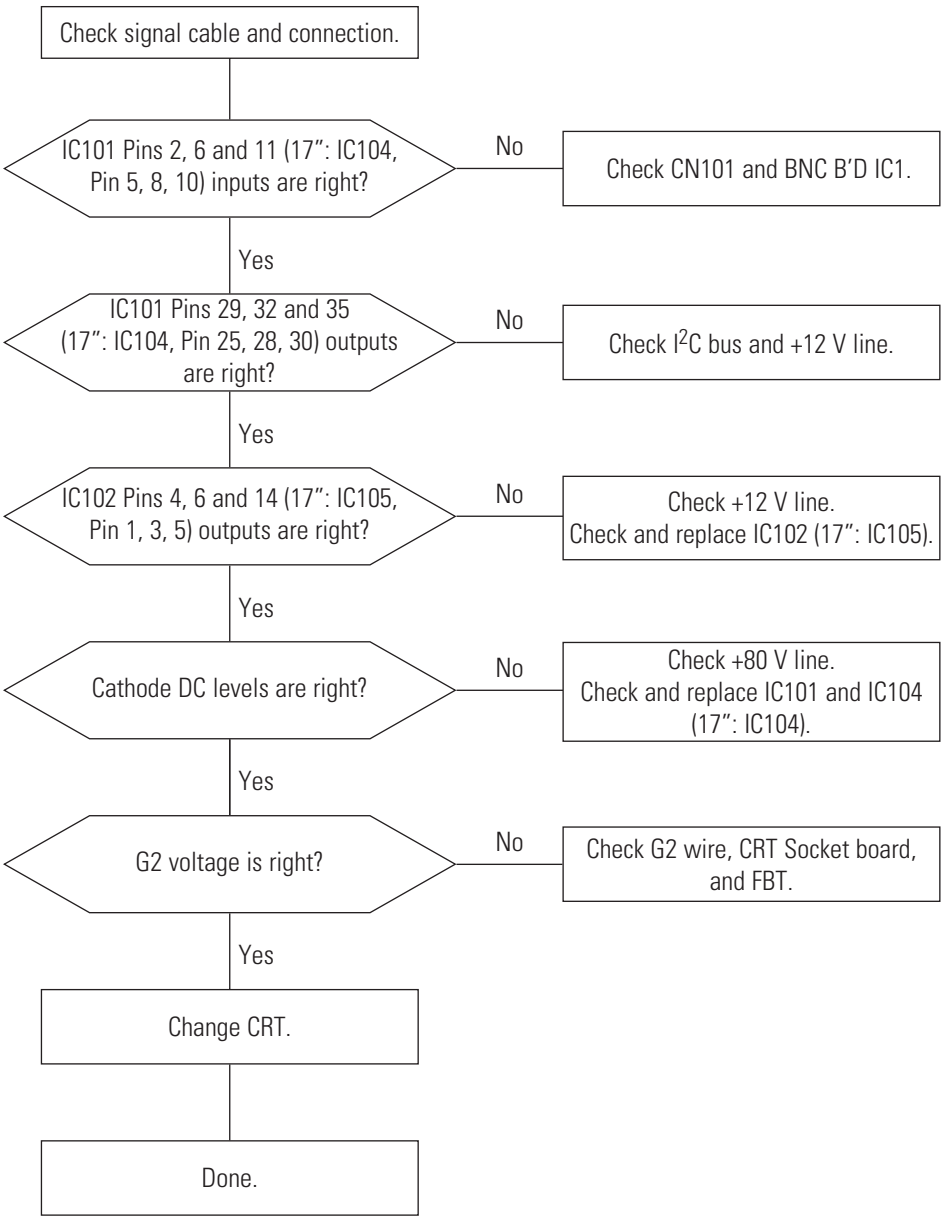

13 IC261 Pins 18 and 15 output are right?
No
Check and replace IC261.
Yes
Some parts around Q551, Q552, Q553 and Q554 are right?
No
Replace failed part.
Yes
14 Some parts around T502 are right?
No
Replace failed part.
Yes
Check the connection between FBT Pin 13, CRT Socket PCB.

WAVEFORMS

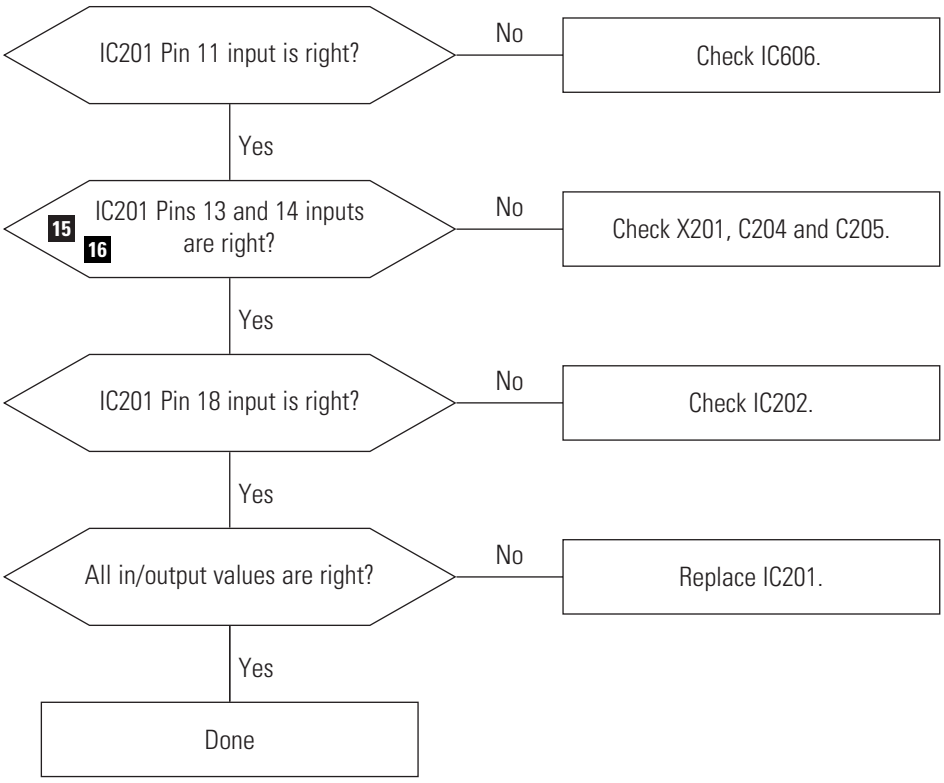




5-1-16 No Video

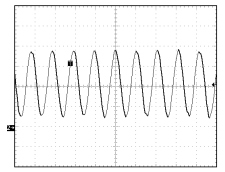

Check signal cable and connection.
IC101 Pins 2, 6 and 11 (17": IC104, Pin 5, 8, 10) inputs are right?
No
Check CN101 and BNC B'D IC1.
Yes
IC101 Pins 29, 32 and 35 (17": IC104, Pin 25, 28, 30) outputs are right?
No
Check I2C bus and +12 V line.
Yes
IC102 Pins 4, 6 and 14 (17": IC105, Pin 1, 3, 5) outputs are right?
No
Check +12 V line.
Check and replace IC102 (17": IC105).
Yes
Cathode DC levels are right?
No
Check +80 V line.
Check and replace IC101 and IC104 (17": IC104).
Yes
G2 voltage is right?
No
Check G2 wire, CRT Socket board, and FBT.
Yes
Change CRT.
Done.

5-1-17 Micom Failure

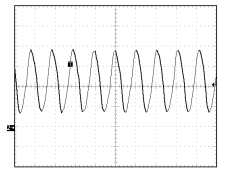


WAVEFORMS

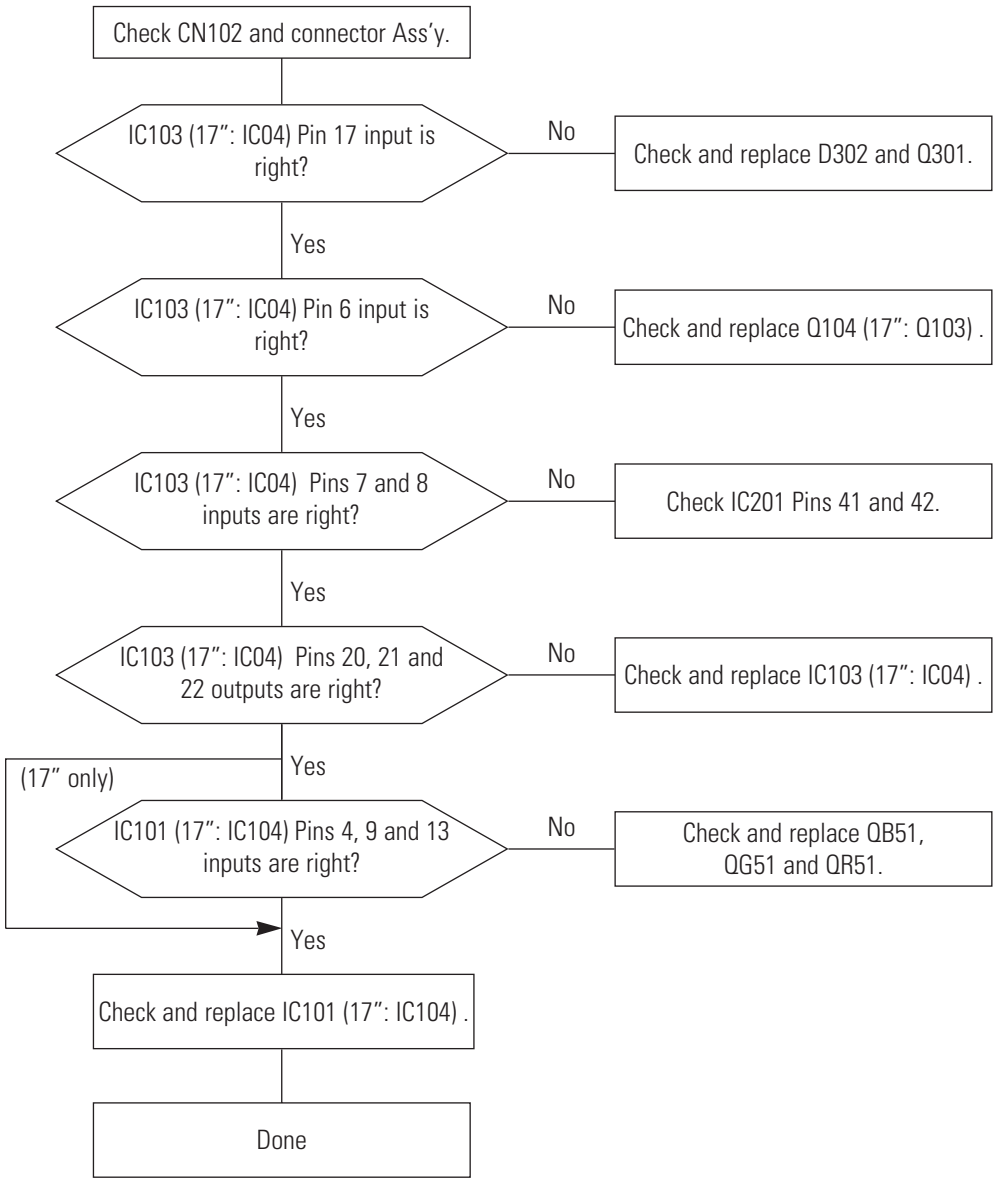
15 3.42 V (IC201, #33)



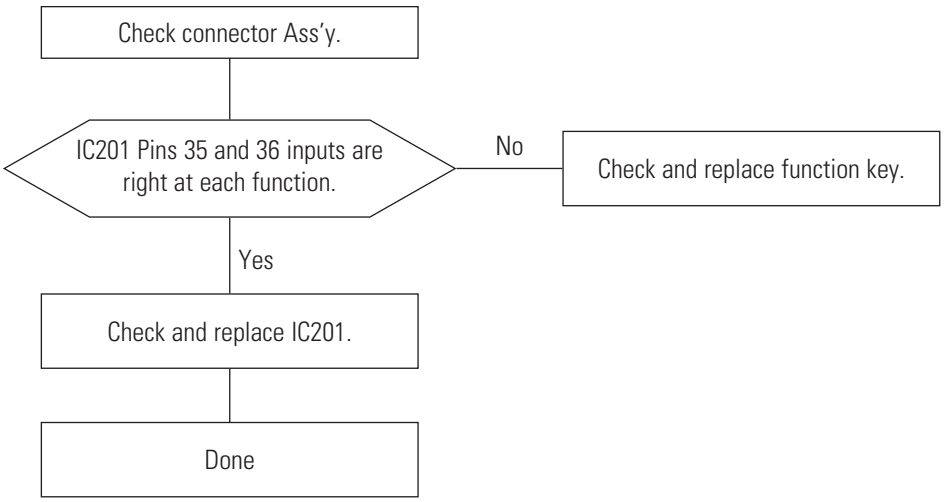
16 3.16 V (IC201, #32)



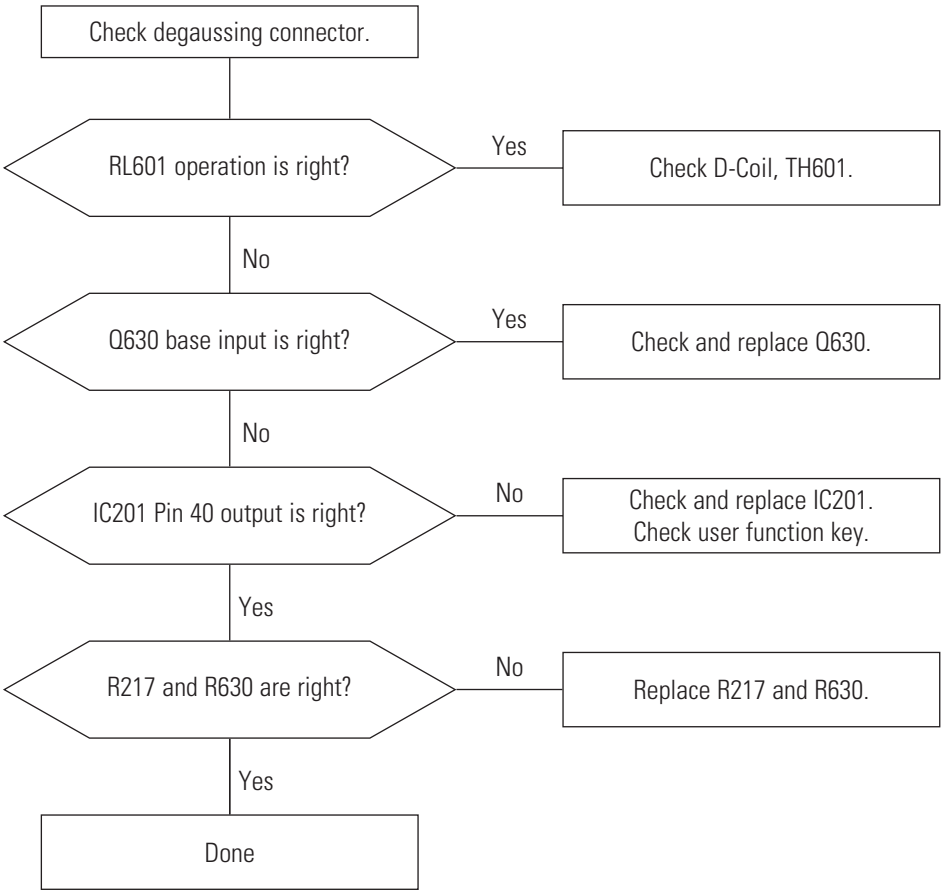
5-1-18 OSD Failure


Check CN102 and connector Ass'y.
IC103 (17": IC04) Pin 17 input is right?
No
Check and replace D302 and Q301.
Yes
IC103 (17": IC04) Pin 6 input is right?
No
Check and replace Q104 (17": Q103) .
Yes
IC103 (17": IC04) Pins 7 and 8 inputs are right?
No
Check IC201 Pins 41 and 42.
Yes
IC103 (17": IC04) Pins 20, 21 and 22 outputs are right?
No
Check and replace IC103 (17": IC04) .
Yes
(17" only)
IC101 (17": IC104) Pins 4, 9 and 13 inputs are right?
No
Check and replace QB51, QG51 and QR51.
Yes
Check and replace IC101 (17": IC104) .
Done

5-1-19 User Control Failure

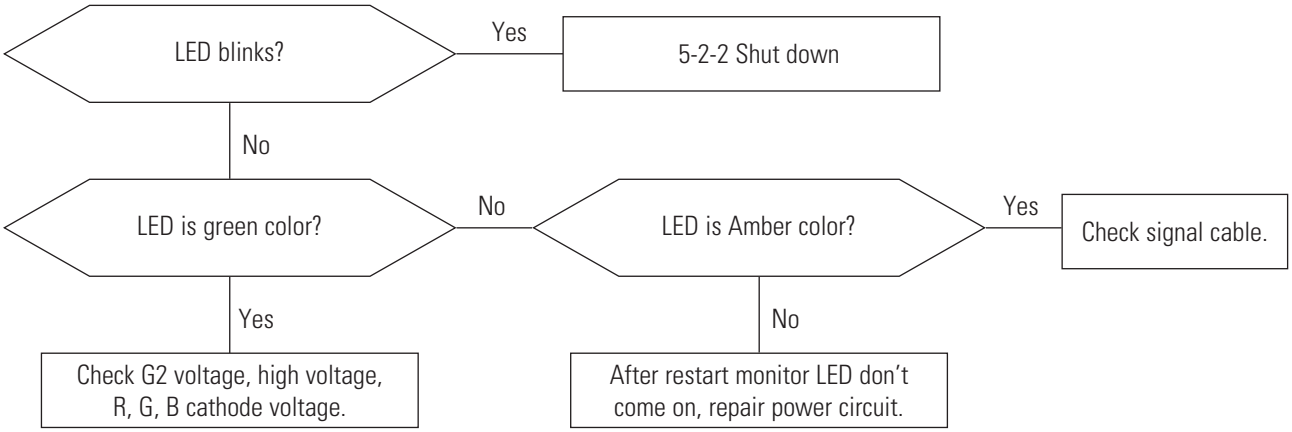


5-1-20 Degaussing Failure

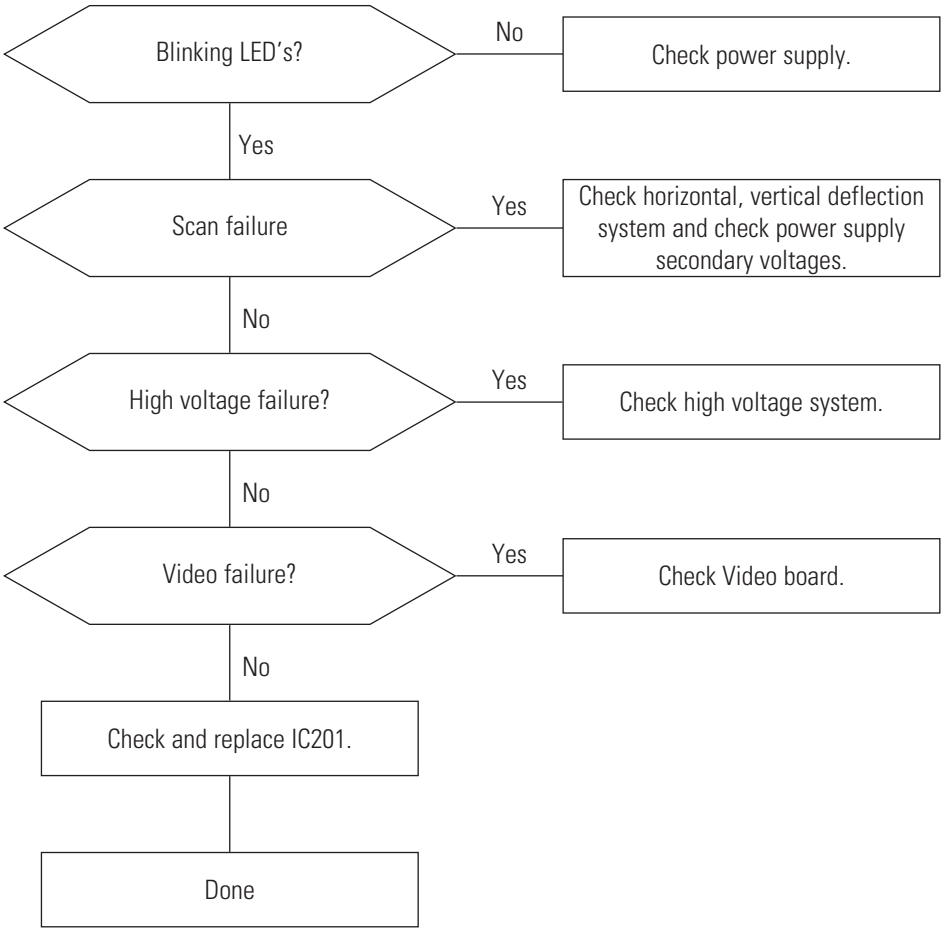


5-2 General Troubleshooting

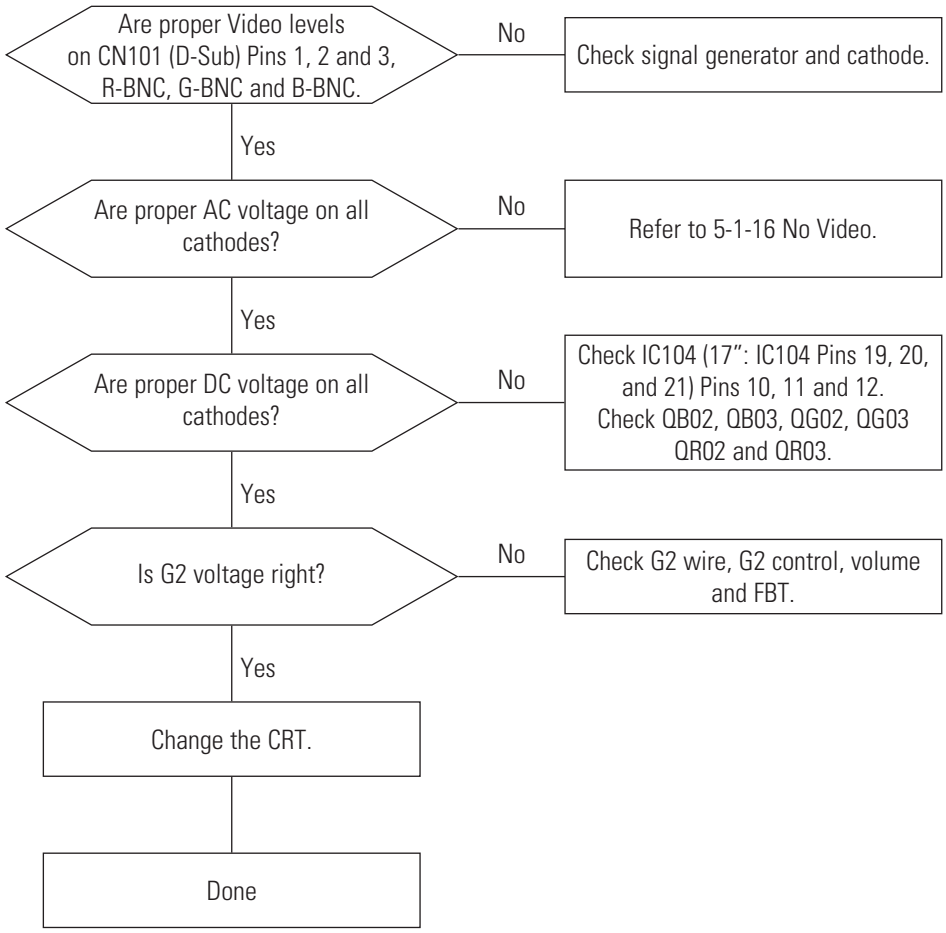
5-2-1 No Picture



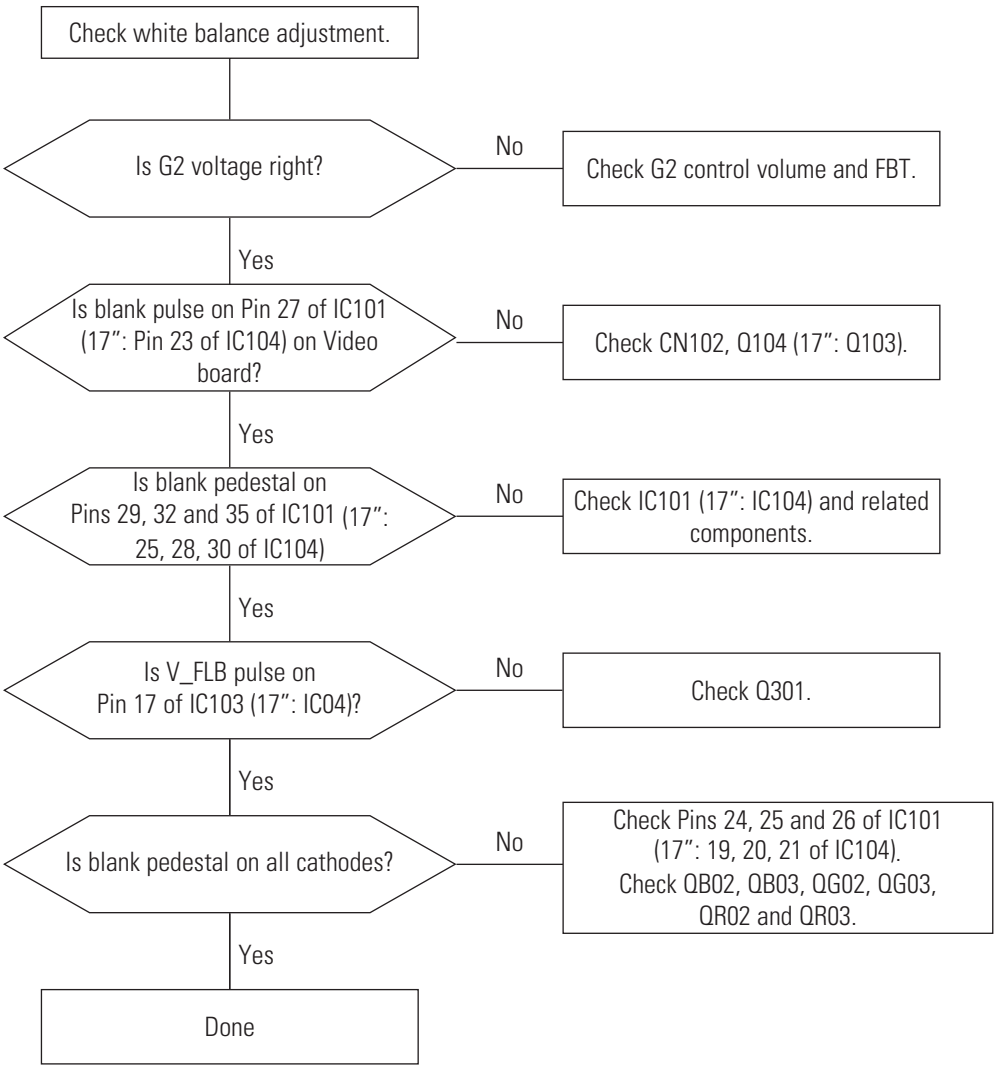
5-2-2 Shut Down



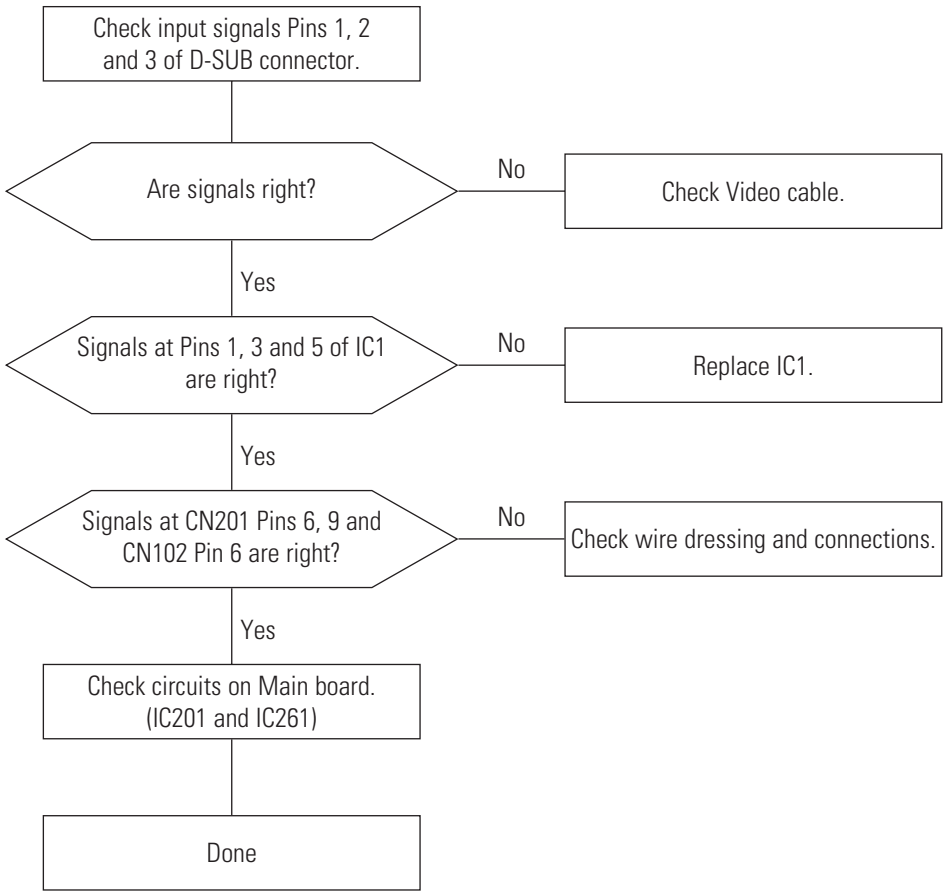
5-2-3 Missing Color


Are proper Video levels on CN101 (D-Sub) Pins 1, 2 and 3, R-BNC, G-BNC and B-BNC.
No
Check signal generator and cathode.
Yes
Are proper AC voltage on all cathodes?
No
Refer to 5-1-16 No Video.
Yes
Are proper DC voltage on all cathodes?
No
Check IC104 (17": IC104 Pins 19, 20, and 21) Pins 10, 11 and 12. Check QB02, QB03, QG02, QG03 QR02 and QR03.
Yes
Is G2 voltage right?
No
Check G2 wire, G2 control, volume and FBT.
Yes
Change the CRT.
Done

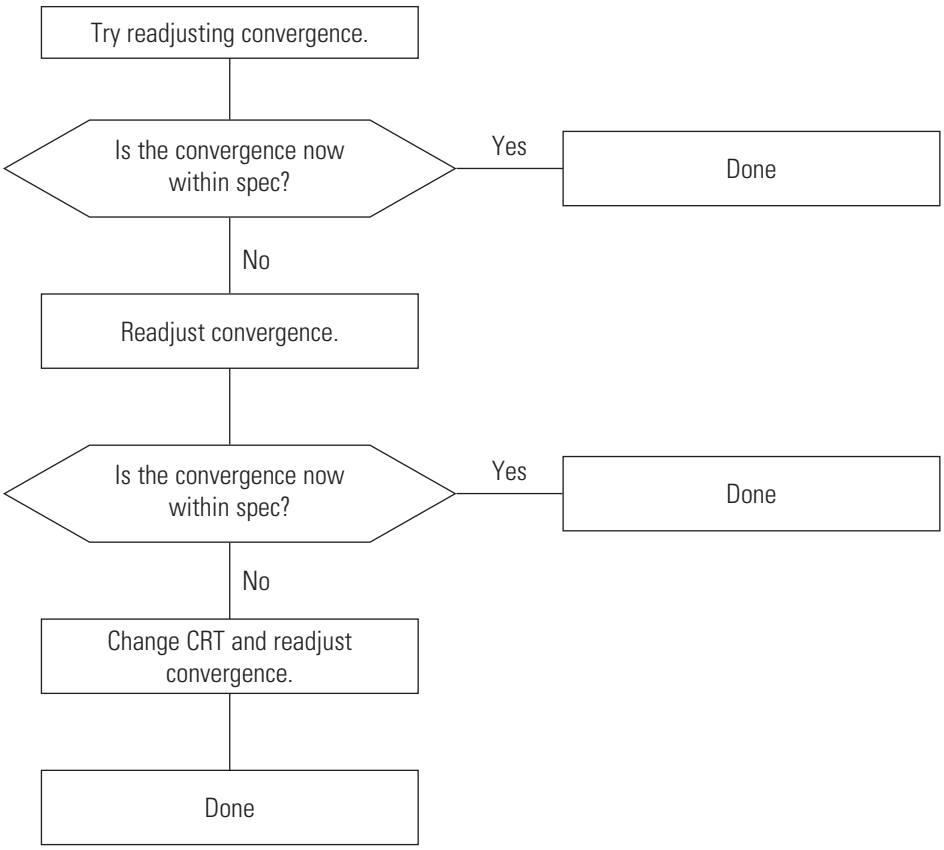
5-2-4 Visible Retrace


Check white balance adjustment.
Is G2 voltage right?
No
Check G2 control volume and FBT.
Yes
Is blank pulse on Pin 27 of IC101 (17": Pin 23 of IC104) on Video board?
No
Check CN102, Q104 (17": Q103).
Yes
Is blank pedestal on Pins 29, 32 and 35 of IC101 (17": 25, 28, 30 of IC104)
No
Check IC101 (17": IC104) and related components.
Yes
Is V_FLB pulse on Pin 17 of IC103 (17": IC04)?
No
Check Q301.
Yes
Is blank pedestal on all cathodes?
No
Check Pins 24, 25 and 26 of IC101 (17": 19, 20, 21 of IC104). Check QB02, QB03, QG02, QG03, QR02 and QR03.
Yes
Done

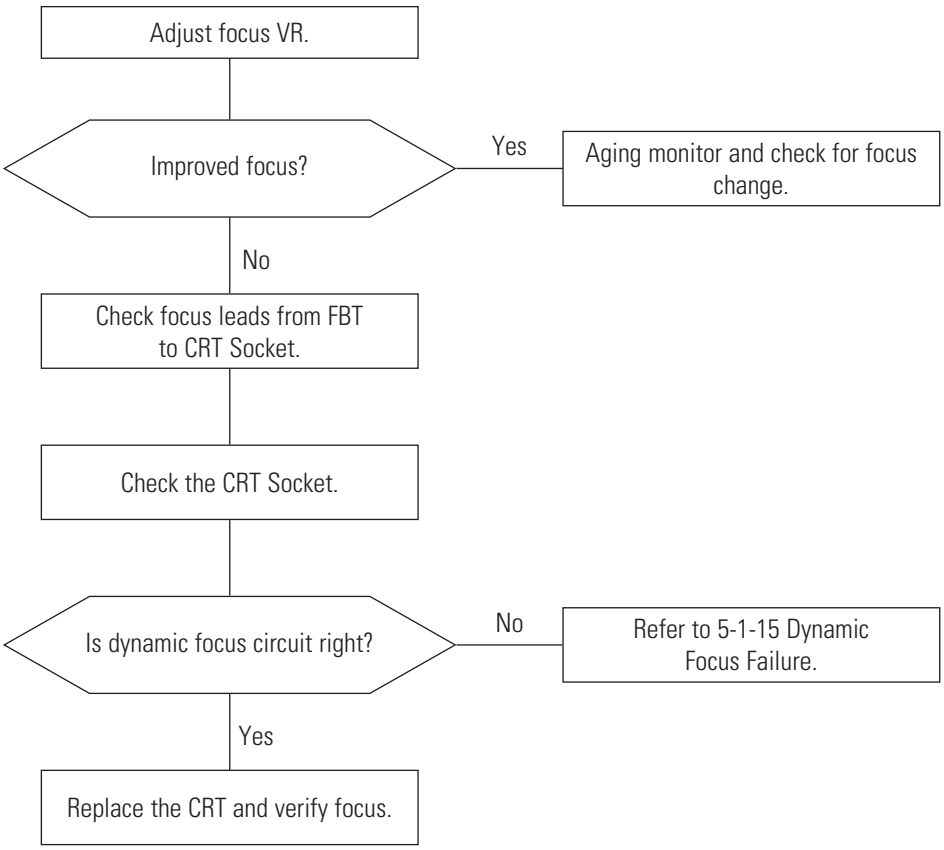
5-2-5 Unsynchronized Image


Check input signals Pins 1, 2 and 3 of D-SUB connector.
Are signals right?
No
Check Video cable.
Yes
Signals at Pins 1, 3 and 5 of IC1 are right?
No
Replace IC1.
Yes
Signals at CN201 Pins 6, 9 and CN102 Pin 6 are right?
No
Check wire dressing and connections.
Yes
Check circuits on Main board. (IC201 and IC261)
Done

5-2-6 Misconvergence



5-2-7 Poor Focus



5-2-8 Purity Failure